



# IBM CICS Explorer

## The New Face of CICS

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CICS Transaction Server v4.1



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## Recent Announcements

The screenshot shows several overlapping browser windows from the IBM website. The main window displays the 'CICS Explorer' product page, highlighting its features as a 'New Face of CICS' and an 'Integration point for CICS tooling with rich CICS views, data, methods'. Other windows show announcements for 'CICS Transaction Server for z/OS V4.1' and 'IBM CICS Explorer for use with CICS TS for z/OS V3'. The IBM logo is visible in the top right corner.

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## Demonstration – CICS Explorer

The screenshot shows the IBM CICS Explorer application interface. The main window displays a list of CICS jobs with columns for Region, Job Name, MVS Sys, Task Co., CICS St., Release, Total CPU, Page In, Page Out, and I/O Count. The data is filtered for 'SAMEDAY' resource. Below the job list, there is an 'Events' section showing a single event record for 'EPRTD003'.

Region	Job Name	MVS Sys	Task Co.	CICS St.	Release	Total CPU	Page In	Page Out	I/O Count
ICCSF1	ICCSF1	MV2C	3	ACTIVE	0660	0000-00-00	0	0	15116
ICCFJRM	ICCFJRM	MV2I	4	ACTIVE	0660	0000-00-00	3	0	61581
ICVJDM2	ICVJDM2	MV2C	3	ACTIVE	0660	0000-00-00	61	1946	398105
ICWJFF1	ICWJFF1	MV2C	3	ACTIVE	0660	0000-00-00	5	4	130107
ICWJFWD	ICWJFWD	MV2C	4	ACTIVE	0660	0000-00-00	3	4	65137
ICWJFWI	ICWJFWI	MV2C	6	ACTIVE	0660	0000-00-00	0	62	58756
ICWJFWM	ICWJFWM	MV2C	10	ACTIVE	0660	0000-00-00	7	0	67416
ICWJFW1	ICWJFW1	MV2C	13	ACTIVE	0660	0000-01-00	2	6	67275
ICWJJK1	ICWJJK1	MV2C	4	ACTIVE	0660	0000-00-00	0	2	64776
ICXJCC1	ICXJCC1	MV2D	3	ACTIVE	0630	0000-01-00	74	4726	1007532
ICXJCV1	ICXJCV1	MV2D	4	ACTIVE	0630	0000-01-00	890	11828	115588
ICXJDC1	ICXJDC1	MV2D	3	ACTIVE	0630	0000-01-00	70	3747	1040527
ICXJDD1	ICXJDD1	MV2D	3	ACTIVE	0640	0000-01-00	147	6668	1063097
ICXJDM1	ICXJDM1	MV2D	4	ACTIVE	0640	0000-01-00	977	12889	123370
ICXJEE1	ICXJEE1	MV2D	4	ACTIVE	0650	0000-01-00	102	6383	117395
ICXJEW1	ICXJEW1	MV2D	4	ACTIVE	0650	0000-01-00	334	15411	1179542
ICXJFWM	ICXJFWM	MV2D	4	ACTIVE	0660	0000-00-00	0	2	64295
IK2232A	CTG322A	MV2C	4	ACTIVE	0650	0000-00-00	2918	13923	8348
IK2232B	CTG322B	MV2C	3	ACTIVE	0650	0000-00-00	263	11927	6241
IK32GCL	IK32GCL	MV2C	3	ACTIVE	0660	0000-00-00	0	0	9452
IK32GCX	IK32GCX	MV2C	3	ACTIVE	0660	0000-00-00	30	1699	5619

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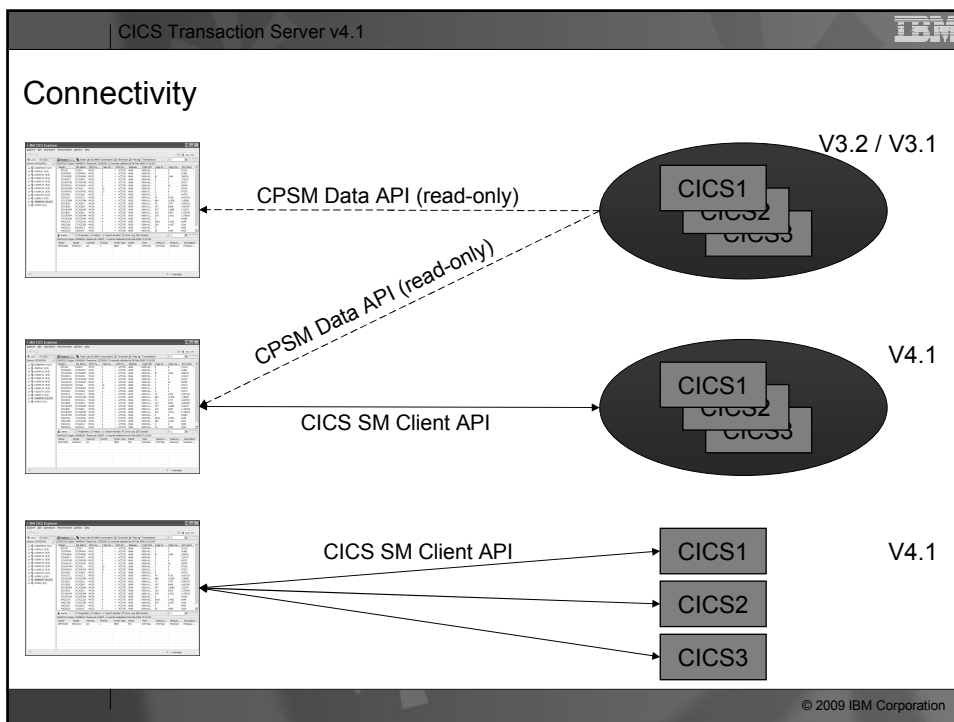
## Single Server Mode

```

1 TASK
STATUS: RESULTS - OVERTYPE TO MODIFY
Tas (0000021) Tra (CONL) Sus Tas Pri ( 255 )
Sta (U ) Use (CICSUSER) Uow (C1A8B0BE02B376D)
Tas (0000024) Tra (COI0) Sus Tas Pri ( 255 )
Sta (U ) Use (CICSUSER) Uow (C1A8B0BF4B1970A0) Hty (USERWAIT)
Tas (0000025) Tra (COIE) Sus Tas Pri ( 255 )
Sta (U ) Use (CICSUSER) Uow (C1A8B0C200655F00) Hty (USERWAIT)
Tas (0049669) Tra (CEMT) Fac (TC25) Run Ter Pri ( 255 )
Sta (TO) Use (CICSUSER) Uow (C1FFA393FCCAB21)

RESPONSE: NORMAL
SYSID=C131 APPLID=IVCYZC20
TIME: 16.27.43 DATE: 02.24.06
PF 1 HELP 3 END 5 VAR 7 SBH 8 SFH 9 MSG 10 SB 11 SF
MA a 01/010
Connected to remote server/host winmv524.hursley.ibm.com using lu/pool IYXTC25 and port 23
  
```

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### Capability Matrix (GA) – CICSplex SM

	Example	Views	Actions
Operations	Regions	Large subset (40+)	Enable / Disable, Discard, ...
Administration (CSD Post-GA)	Transaction Definitions	All Basic	Create, Update, Install, Delete, Add/Remove
Topology	CICSplex	Subset	No
RTA Events	RTA Outstanding Events	Small subset	No
WLM	Active Workloads	Small subset	No
Monitoring	Active Monitor Specifications	N/A	N/A

### Capability Matrix (GA) – CICS (Single Server)

	Example	Views	Actions
Operations	Regions	Large subset (40+)	Enable / Disable, Discard, ...
Administration (Post-GA)	Transaction Definitions	All Basic	Create, Update, Install, Delete, Add/Remove
Topology	CICSplex	Subset	N/A
RTA Events	N/A	N/A	N/A
WLM	N/A	N/A	N/A
Monitoring	N/A	N/A	N/A

## Service and Update

- **Explorer has been delivered at regular intervals to surface new capability and solicit feedback**
  - CICS TS / CICS Explorer Beta: every 2 months
  - CICS SupportPac: November, December, February
- **We intend to continue delivering updates to Explorer (and CICS Tools) at least every 90 days**
  - Exploit Post-GA capability e.g. CSD access
  - Deliver remaining CICS/CPSM functionality
  - Usual bug fixes
- **Each new code drop will supersede all previous and include both enhancements and service**

## Distribution and Maintenance

- **Distribution**
  - ZIP (100MB) download for Windows & Linux
    - Includes Explorer, Eclipse RCP & JRE (IBM Java 6)
    - Used for new version/releases and initial install
    - Not ideal for large groups (see below) but great for getting started
  - ZIP update site (10MB)
    - Explorer
    - Used to update initial install
    - Great for systems not Internet-connected and updates can be backed-out
  - Update site
    - Explorer
    - Used to update initial install
    - Can be configured to happen automatically
- **Maintenance**
  - Each user can have a local installation e.g. C:\Program Files\CICS\_Explorer
  - Multiple users can share a single installation from a read-only network drive
  - Either installation can be managed using any mechanism above
  - User settings and customizations are held locally
  - More information about restricted user environments in a future white paper

## A Concept Realized

- **Single user interface for CICS & CICSplex SM**
  - Provides enhanced (possibly complete) subset of existing CPSM Web UI functionality as well as CEMT, CEDA, ...
  - Aimed at CICS system programmer, operator and application developer
  - Designed for both new and experienced CICS users
- **Integration platform**
  - Enables consistent experience for users of CICS Tools, customer contributions and 3rd party applications
  - Includes common set of icons, views and server access (including logon configuration) as well as integration framework for shared use cases
  - Centrally managed and distributed using Eclipse Update Manager or shared network drive
- **Software Development Kit (SDK)**
  - Provides separately packaged plug-ins for any Eclipse-based environment including RDz
  - API allows 3rd parties to extend or integration existing capability
  - Layered architecture allows Eclipse-independent components to be used in any environment

## CICS Explorer – Integration Platform

- **CICS Tools**
  - CICS Interdependency Analyzer (IA)
  - CICS Configuration Manager (CM)
  - CICS Performance Analyzer (PA)
- **CICS Transaction Gateway**
- **Tivoli OMEGAMON XE for CICS**



# Demonstration – CICS Tools

The screenshot displays the IBM CICS Explorer interface. The main window shows a list of resources for the scope 'ABC123'. The resources are listed in a table with columns for Name, Version, Program Name, Created, Changed, Description, and Status. The resources include: kmt1, A, ACOW, A1, A2, A3, A4, AS, AS, BAR1, BAR, B001, CDD1, CR41, D, D, F001, F002, F003, F009, FROG, FUND, HA, HO9.

Name	Version	Program Name	Created	Changed	Description	Status
kmt1	1	ENABLED	24-Oct-2008 15:04...	26-Feb-2009 14:13...	Special character t...	ENABLED
A	1	A	19-Jan-2009 11:23...	19-Jan-2009 11:23...	this is changed	ENABLED
ACOW	1	A	26-Jan-2009 16:52...	04-Feb-2009 13:55...	Cov12	ENABLED
A1	1	FROG	27-Jul-2008 23:17:09	01-Mar-2009 21:44...	This is a new trans...	ENABLED
A2	1	BOB	07-Jan-2009 00:32...	07-Jan-2009 00:32...	This is created afte...	ENABLED
A3	1	FROG	12-Jan-2009 11:56...	12-Jan-2009 11:56...	Change me	ENABLED
A4	1	FOO	13-Jan-2009 11:56...	13-Jan-2009 11:56...	Change me	ENABLED
AS	1	AAAAAAA	12-Jan-2009 18:15...	12-Jan-2009 18:15...		ENABLED
BAR1	1	PEPSIONE	26-Mar-2008 10:41...	23-Oct-2008 10:49...	Changed by Satish	ENABLED
BAR	1	PEPSIONE	07-Jan-2009 10:33...	07-Jan-2009 10:33...	Created by Satish	ENABLED
B001	1	DF	28-Apr-2008 23:23...	21-Oct-2008 10:12...	bye	ENABLED
CDD1	1	ABC123	12-Jun-2008 11:19...	14-Oct-2008 10:40...	This is for EM	ENABLED
CR41	1	ABC123	07-Jul-2008 10:26:07	17-Oct-2008 11:43...	Change this for Craig	ENABLED
D	1	12	19-Jan-2009 11:41...	19-Jan-2009 11:41...		ENABLED
D	1	12	19-Jan-2009 11:41...	19-Jan-2009 11:41...		ENABLED
F001	1	FIRSTPM	15-May-2008 09:32...	15-May-2008 17:24...	This is a description	ENABLED
F002	1	PEPSIONE	06-Aug-2007 16:37...	21-Jul-2008 00:29:41	Lattee coffee	ENABLED
F003	1	PEPSIONE	28-Feb-2009 23:37...	21-Jul-2008 00:29:41	Created by CM stan...	ENABLED
F009	1	PROG0001	08-Apr-2008 10:30...	30-Jul-2008 02:41:12	Created by Junit co...	ENABLED
FROG	1	DUCOM001	15-May-2008 08:45...	23-Oct-2008 00:29...	This is a Frog	ENABLED
FUND	1	FIRSTPM	15-May-2008 00:33...	17-Oct-2008 11:43...	Change this	ENABLED
HA	1	HA	30-Jul-2008 00:27:41	17-Oct-2008 12:10...	cccc	ENABLED
HO9	1	HO9	19-Jun-2008 17:03...	19-Jun-2008 17:03...	Change this	ENABLED



# Demonstration – CICS Transaction Gateway

The screenshot displays the IBM CICS Explorer interface showing Gateway Demons and Connections. The Gateway Demons table lists various demons with columns for Name, Status, Version, Gateway ID, Release, CPU Count, Page In Count, Page Out Count, and I/O Count. The Connections table lists connections with columns for Name, Server, Protocol, Target, Default, Connect fails, Completed, Response, Active req., Allocated, and Allocate p....

Name	Status	Version	Gateway ID	Release	CPU Count	Page In Count	Page Out Count	I/O Count
CTCPW3	Running	7.1.0.2	GEBAWACTCPW3	CTCPW	02:11:59	4088	0	100
CTCPW4	Running	7.1.0.2	GEBAWACTCPW4	CTCPW	02:11:59	4088	0	100

## CICS Transaction Gateway

### From the RFA:

*Simplifying system management, through the provision of new systems management interfaces providing the ability for integration with the CICS Explorer.*

## OMEGAMON XE for CICS

- **OMEGAMON provides information that is very complementary to the Explorer**
  - Analysis
  - Situations
  - Application trace
- **But CICS and Tivoli do not have a common deployment platform**
- **However, recognize that some people spend most of their time in OMEGAMON while others will (hopefully) spend most of it in the Explorer**
- **Proof-of-concept plug-in for CICS Explorer**
  - Show existing Tivoli data
  - Two-way integration between CICS/CPSM and TEP
  - No immediate plans but watch this space ...



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## OMEGAMON XE for CICS – CICSplex Explorer Integration

**Tasks**  
 Scope: IYK3ZJ74, 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
IYK3ZJ74	000019	CONL	RUNNING	JT1			255	DFHTCLO0	0000:00:00
IYK3ZJ74	000028	COVG	SUSPEN...	JT1			255	DFHTCLO0	0000:00:14
IYK3ZJ74	0000181	COID	SUSPEN...	JT1			255	DFHTCLO0	0000:00:00
IYK3ZJ74	0000182	COIE	SUSPEN...	JT1			255	DFHTCLO0	0000:00:08
IYK3ZJ74	0000273	COVA	SUSPEN...	JT1			150	DFHTCLO0	0000:00:00
IYK3ZJ74	0000295	COVP	SUSPEN...	JT1			75	DFHTCLO0	0000:00:00

**Regions**  
 Scope: IYK3ZJ74, Resource: CICSROG, 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
IYK3ZJ74	WUJT4A	MV2C	6	ACTIVE	0650	0000:01:38...	1576	13543	42984

**OMEG Table View**

Origin Node	System ID	CICS Name	Transaction ID	Task Number	Termid	CICS_SYSIDNT	User ID	Stat
MV2C.WUJT4A	MV2C	WUJT4A	CSCL	00004	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSY	00005	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSY	00006	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSY	00008	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CONL	00019	n/a	JT4A	JT1	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSY	00020	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSHQ	00022	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSNE	00024	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CISR	00025	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CISE	00026	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	COVG	00028	n/a	JT4A	JT1	Actv
MV2C.WUJT4A	MV2C	WUJT4A	COID	00181	n/a	JT4A	JT1	Actv
MV2C.WUJT4A	MV2C	WUJT4A	COIE	00182	n/a	JT4A	JT1	Actv
MV2C.WUJT4A	MV2C	WUJT4A	COVA	00273	n/a	JT4A	JT1	Actv

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## OMEGAMON XE for CICS – TEP Navigator Integration

**OMEG Table View**

Origin Node	System ID	CICS Name	Transaction ID	Task Number	Termid	CICS_SYSIDNT	User ID	Stat
MV2C.WUJT4A	MV2C	WUJT4A	CSCL	00004	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSY	00005	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSY	00006	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSY	00008	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CONL	00019	n/a	JT4A	JT1	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSY	00020	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSHQ	00022	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CSNE	00024	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CISR	00025	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	CISE	00026	n/a	JT4A	n/a	Actv
MV2C.WUJT4A	MV2C	WUJT4A	COVG	00028	n/a	JT4A	JT1	Actv
MV2C.WUJT4A	MV2C	WUJT4A	COID	00181	n/a	JT4A	JT1	Actv
MV2C.WUJT4A	MV2C	WUJT4A	COIE	00182	n/a	JT4A	JT1	Actv
MV2C.WUJT4A	MV2C	WUJT4A	COVA	00273	n/a	JT4A	JT1	Actv

**OMEG Situation View**

HSITNAME	PROGID	ATOMIZE	HSISLNTHSP	HLGLNTHSP	HORIGRRCODE	PATHNAME	TYPE	HE
Crypto_Service...	WALKER:CMS		109022016002...	109022016002...	MVSAA:MVA...		0	
Crypto_Interna...	WALKER:CMS		109022016002...	109022016002...	MVSAA:MVA...		0	
Splexx_DASD...	WALKER:CMS		109022016095...	109022016095...	MVSAA:MVS:ST...		0	

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## OMEGAMON XE for CICS – Transaction Analysis

Origin Node	System ID	CICS Name	Transaction ID	Task Number	Terminid	CICS_SYSID	User ID
MV2C.WUJTT4A	MV2C	WUJTT4A	CSOL	00094	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	CSY	00005	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	CSY	00006	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	CSYP	00008	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	CONL	00019	n/a	JT4A	JT1
MV2C.WUJTT4A	MV2C	WUJTT4A	CSY	00020	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	CSHQ	00022	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	CSNE	00024	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	CISR	00025	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	CISE	00026	n/a	JT4A	n/a
MV2C.WUJTT4A	MV2C	WUJTT4A	COIG	00028	n/a	JT4A	JT1
MV2C.WUJTT4A	MV2C	WUJTT4A	COLD	00181	n/a	JT4A	JT1
MV2C.WUJTT4A	MV2C	WUJTT4A	COIE	00182	n/a	JT4A	JT1
MV2C.WUJTT4A	MV2C	WUJTT4A	COVA	00273	n/a	JT4A	JT1

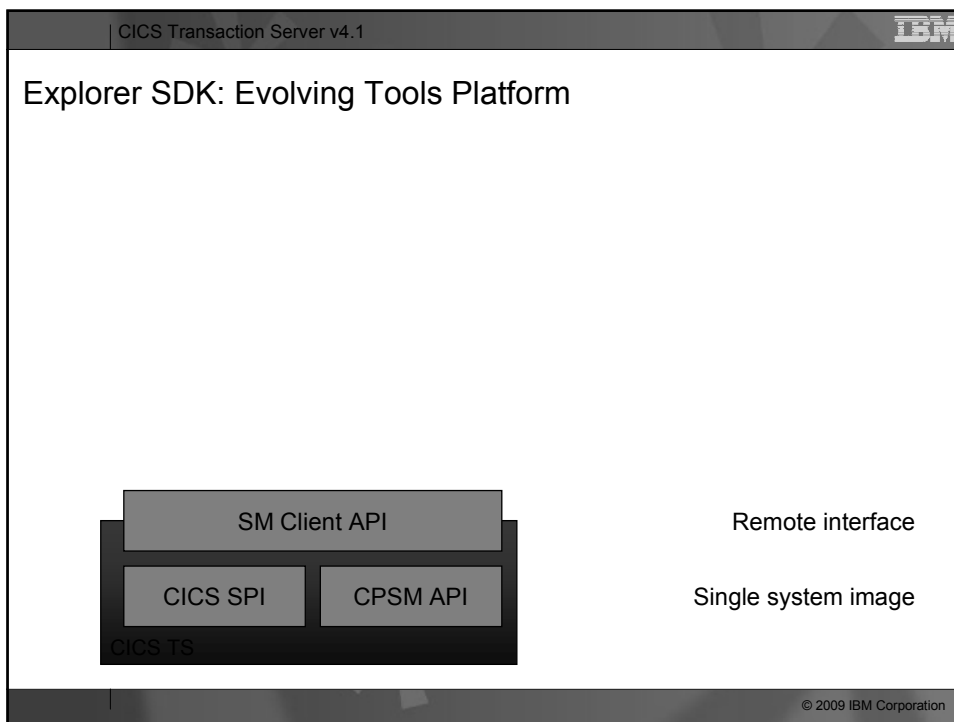
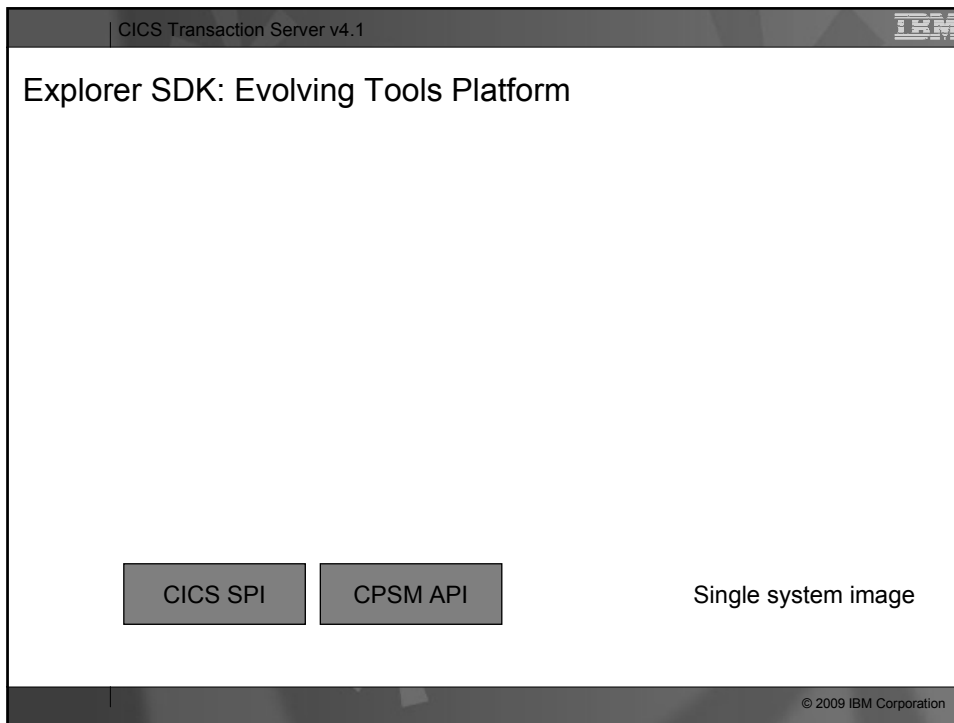
  

HEBITNAME	WUIDE	ATOMIZE	HSEBITSTHP	HLGLTSTHP	HORIGENODE	PATHNAME	TYPE	HE
Crypto_Service...	WALKER:CMS		109022016002...	109022016002...	MYSAA-MVAA:...		0	
Crypto_Internal...	WALKER:CMS		109022016002...	109022016002...	MYSAA-MVAA:...		0	
Sysplex_DASD...	WALKER:CMS		109022016095...	109022016095...	MYSAA-MYS:SY...		0	

## CICS Explorer SDK: Evolving Tools Platform

CICS SPI

COBOL, PL/I & ASM





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# CICS Explorer Community

**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 & resources, ISV Contributions, etc. Ask questions, suggest improvements, report problems, chat**

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[CICSFluff](#) - Other CICS videos



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# CICS Explorer FAQ

- **Do I still need the CPSM WUI?**
  - **Yes.** At GA while Explorer will fully support all the new V4.1 resource types it will not provide all the capability currently found in the WUI. In particular the will be limited support for WLM but this will be rolled out over time.
- **If I am already using the WUI why do I need Explorer?**
  - **Yes.** Explorer provides new capability such as Single Server mode and CSD access. Furthermore we believe Explorer provides a more intuitive interface for both experienced and new users.
- **Is Explorer supported for CICS TS V3?**
  - **Yes.** The August 2008 statement of direction clearly states our intention to include Explorer with both current and future releases of CICS

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## Questions

## SHARE Sessions

- 1412 Monday 11:00am **Rational Developer for System z (RDz), an IDE for Cobol and CICS Web Services Hands-on Lab**
- 1026 Monday 1:30pm **IBM CICS Explorer - The New Face of CICS**
- 1028 Monday 3:00pm **CICS - Investing in the Future**
- 8382 Wednesday 11:00am **Agile and CICS: Coding and Debugging Java applications in a CICS SOA environment**
- 1055 Wednesday 1:30pm **CICS Explorer Hands-on Lab**
- 1057 Wednesday 3:00pm **CICS Hands-on Lab: Various Topics**
- 1410 Wednesday 4:30pm **Developing and Debugging CICS Programs using Rational Developer for System z (RDz)**
- 1072 Thursday 4:30pm **CICS Question Box and Pot Luck**
- Monday, Tuesday, Wednesday **SHARE Technology Exchange Expo**

## More Information

- **IBM CICS Explorer**
  - <http://www.ibm.com/software/cics/explorer/>
- **CICS Transaction Server for z/OS V4.1**
  - <http://www.ibm.com/software/cics/tserver/v41/>
- **CICS Transaction Gateway for z/OS, Version 7.2**
  - <http://www.ibm.com/software/cics/ctg/zos/>