

# IBM CICS® Explorer: The Smart New Face of IBM CICS

Andrew Bates  
Business Development Manager

[batesan@cn.ibm.com](mailto:batesan@cn.ibm.com)



## IBM CICS® User Conference 2009

# Introduction

This two part session will look in depth at the CICS Explorer, discussing its architecture, its construction, the state of what's available now, as well as plans and directions for its future.

The session will also cover how IBM's key CICS Tools have been built on top of the Explorer framework, delivering Interdependency Analyzer (IA) Explorer, Configuration Manager (CM) Explorer and Performance Analyzer (PA) Explorer capabilities.

## Agenda:

- **A (very) brief introduction to Eclipse (part 1)**
- **Introduction to the CICS Explorer (part 1)**
- Introduction to the CICS Tools Explorer (part 2)

# What is Eclipse?

“ Eclipse is a multi-language software development platform comprising an IDE and a plug-in system to extend it. It is written primarily in Java and can be used to develop applications in Java and, by means of the various plug-ins, in other languages as well, including C, C++, COBOL, Python, Perl, PHP, and others. ”

[http://en.wikipedia.org/wiki/Eclipse\\_\(software\)](http://en.wikipedia.org/wiki/Eclipse_(software))

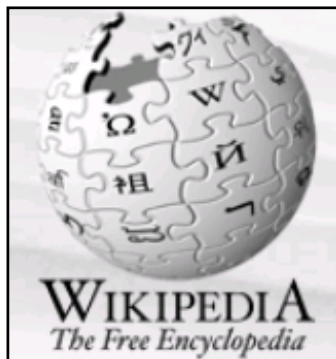
- A Java IDE
- An IDE Framework
- A Tools Framework
- An Application Framework
- A community
- An eco-system
- A foundation
- An Open Source Enabler



Screenshot <span style="float: right;">[show]</span>	
Developer(s)	Free software community
Stable release	3.5.0 (Galileo) / 2009-06-24; 34 days ago
Preview release	3.6
Written in	Java
Operating system	Linux , Mac, Windows (Cross-platform)
Available in	Multilingual
Development status	Active
Type	Software development
License	Eclipse Public License
Website	<a href="http://www.eclipse.org">www.eclipse.org</a>

## What is a Rich Client?

- An application that uses the windowing and GUI features of the operating system
  - Native widgets
  - Drag & drop
  - Integration with platform component model
  - Much, much, more...

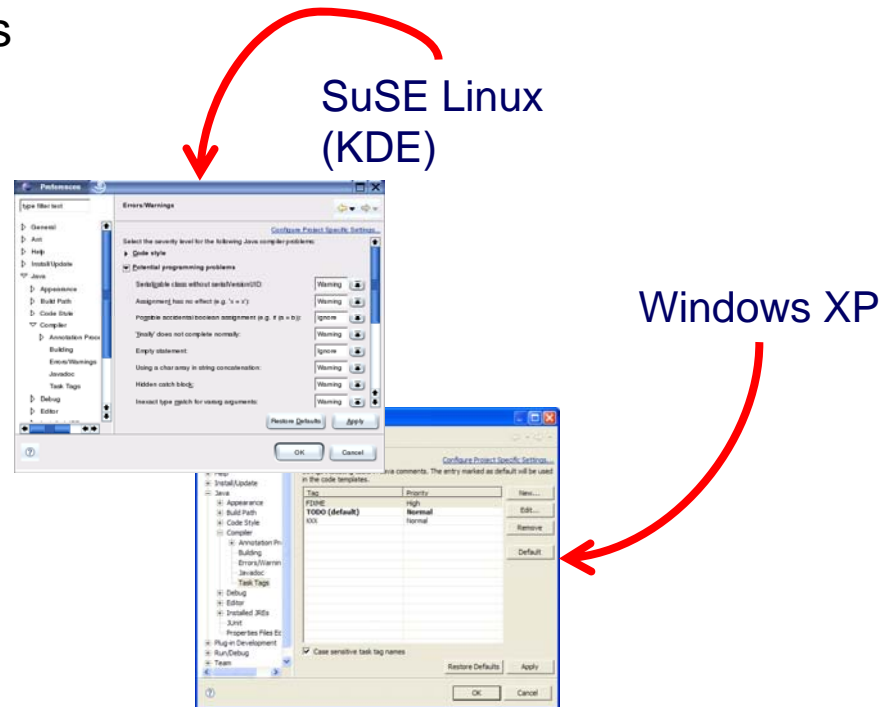


“ Eclipse provides the Eclipse Rich Client Platform (RCP) for developing general purpose applications.

[http://en.wikipedia.org/wiki/Eclipse\\_\(software\)](http://en.wikipedia.org/wiki/Eclipse_(software)) ”

# Why Use Eclipse Rich Client Platform?

- A consistent and native look and feel across applications and features
- Provides common application services
  - Native look and feel
  - Window management
  - Standardized component model
    - Pervasive extensibility
    - Update Manager
  - Help system



- First-class development tools
- Middleware for building rich client applications!
  - Allows programmers to focus on core application not the plumbing
  - Don't reinvent the wheel

# CICS Explorer Topics

- Why, What, When, How?
- V3 SupportPacs
  - V3 Demo
- V4 Additions
  - V4 Demo
- Explorer Integration
  - Tools Integration Demo
- Useful Links
- Summary

# Why What When How

- ***Simplify CICS***

- *New users, familiar user interface, high learning curve, experienced user investment*

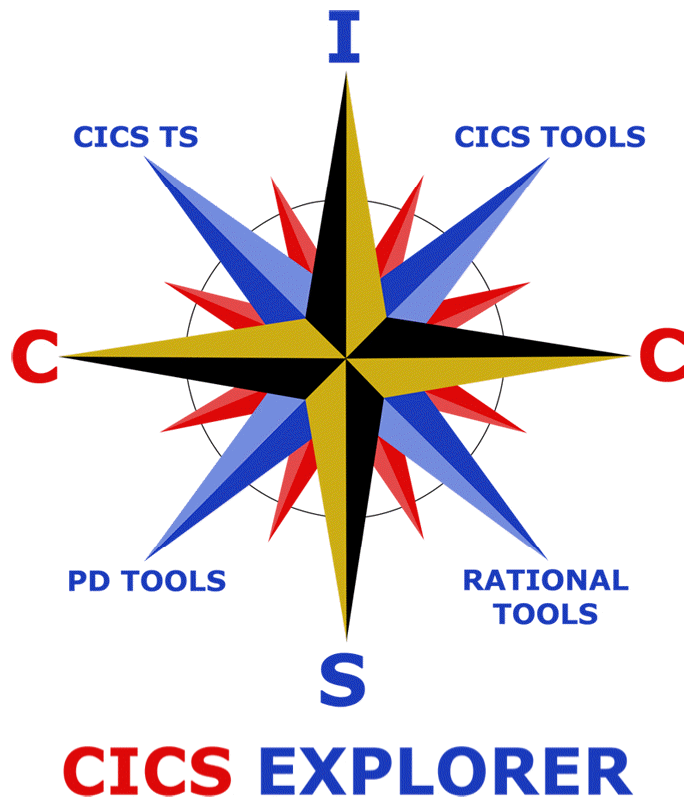
- ***Integration platform***

- *Value of the sum exceeds the part, first class cross tool scenario integration*

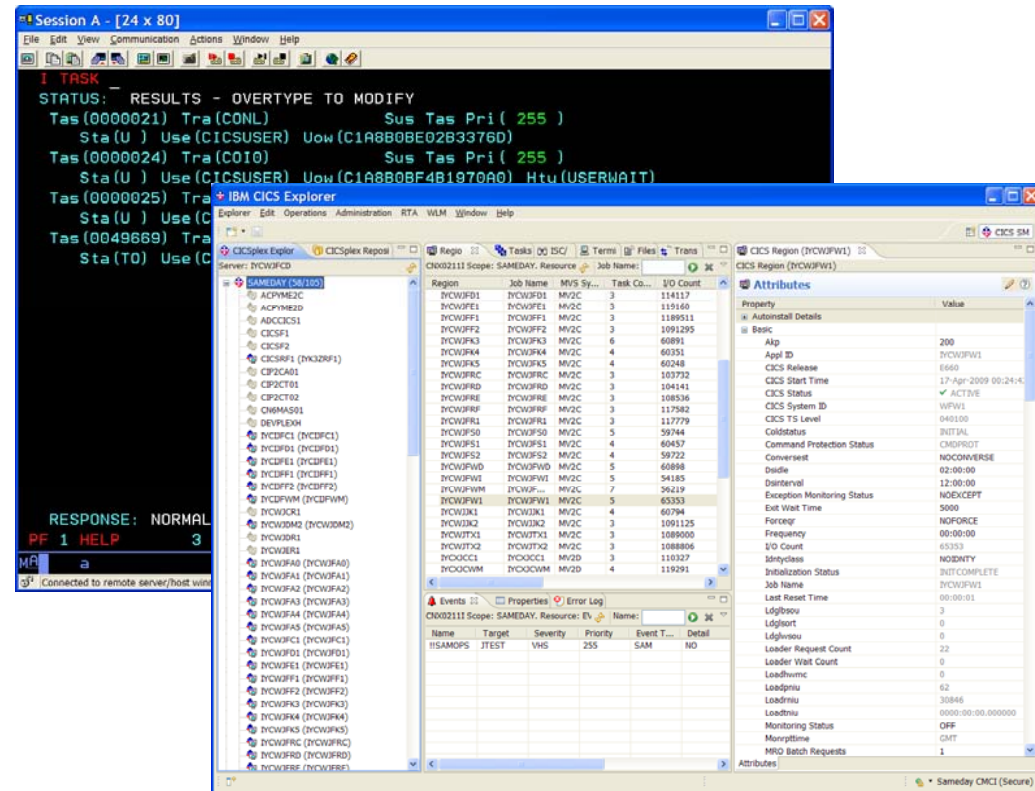
- ***Wide and deep***

- *Streamline process and add value to experienced CICS professionals*

# Why What When How



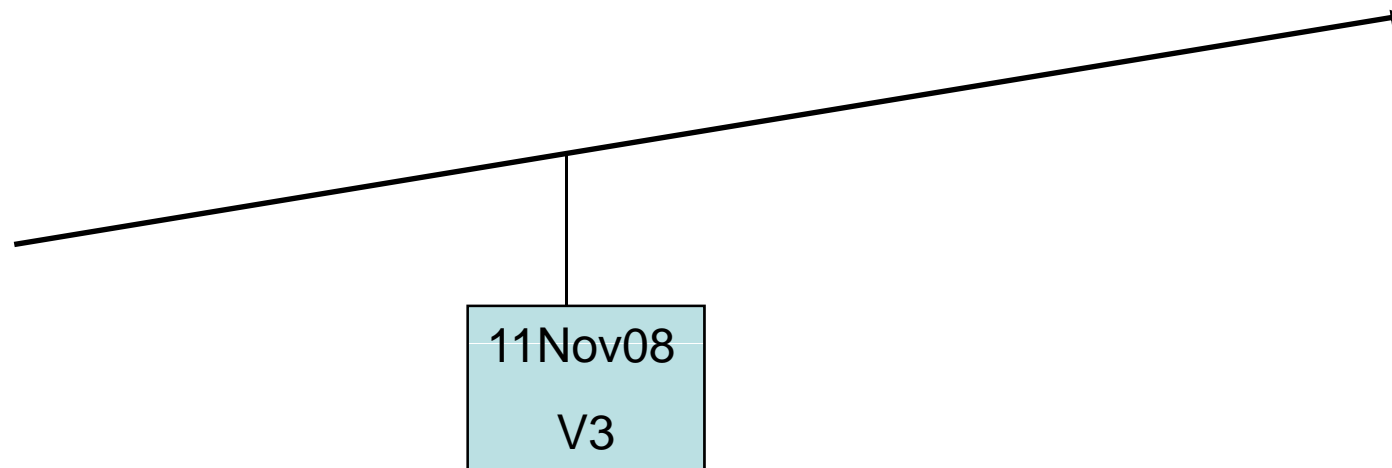
## The Traditional Face of CICS



## The Smart New Face of CICS



# Why What **When** How



## CICS Explorer for CICS TS V3

The screenshot shows the IBM website page for the CICS Explorer for use with CICS TS for z/OS V3. The page is viewed in Microsoft Internet Explorer. The main content area features the following sections:

- Document information:** Product categories: Software, Host Transaction Processing, Transaction Servers, CICS Transaction Server, SupportPac. Operating system(s): z/OS. Software version: 3.1, 3.2. Reference #: 4020718. IBM Group: Software Group. Modified date: 2009-04-28.
- Downloadable files:** A section for downloading the software.
- Abstract:** This SupportPac provides the IBM CICS Explorer, an Eclipse-based PC application that allows you to view and work with CICS system resources and definitions. V1.3 is now available.
- Download Description:**
  - This SupportPac has been updated to version 1.3. See [details of version 1.3](#) and upgrade to this new version as soon as you can to take advantage of the fixes and performance enhancements.
  - The IBM CICS Explorer is a new graphical tooling interface for CICS, providing significantly enhanced levels of usability and integration. The CICS Explorer enables you to create customizable task-oriented views. It is intended to act as the tooling integration point for the CICS runtime and to provide a rich set of CICS views, data, methods, and features that are easily extensible by IBM, vendors, and clients.
  - The CICS Explorer is available for use with both Microsoft Windows (as SupportPac CS11) and Linux (as SupportPac CS10) operating systems, and connects to CICS Transaction System for z/OS V3.1, or later.
- Support from IBM CICS tools:** Selected IBM CICS tools complement and enrich the base data and tasks provided by the CICS Explorer with their own views, tasks, and data to support disciplines. These disciplines include things such as CICS performance analysis, application configuration, application structure, and interdependency analysis. IBM CICS tools support the CICS Explorer in the form of plug-ins and are available for the following CICS tools:
  - CICS Configuration Manager for z/OS (CICS CM) V1.2, or later
  - CICS Interdependency Analyzer for z/OS (CICS IA) V2.2, or later
  - CICS Performance Analyzer for z/OS (CICS PA) V2.1, or later
- Related software:** CICS Tools, AD & PD Tools, WebSphere Developer for System z, WebSphere MQ, CICS Connectors, WebSphere Business Integration.
- Related hardware:** IBM zSeries.

The page also includes a navigation menu on the left, a search bar, and a 'Rate this page' section. At the bottom, there is a small screenshot of the CICS Explorer application interface with three callout boxes: 'View Systems', 'View status of tasks', and 'Edit Resource Definitions'.

# CICS Explorer SupportPacs

an existing Eclipse environment.

Note: The CICS tools plug-ins SupportPac (CS1N) and CICS Explorer SDK SupportPac (CA1R) support both Microsoft Windows and Linux versions of the CICS Explorer.

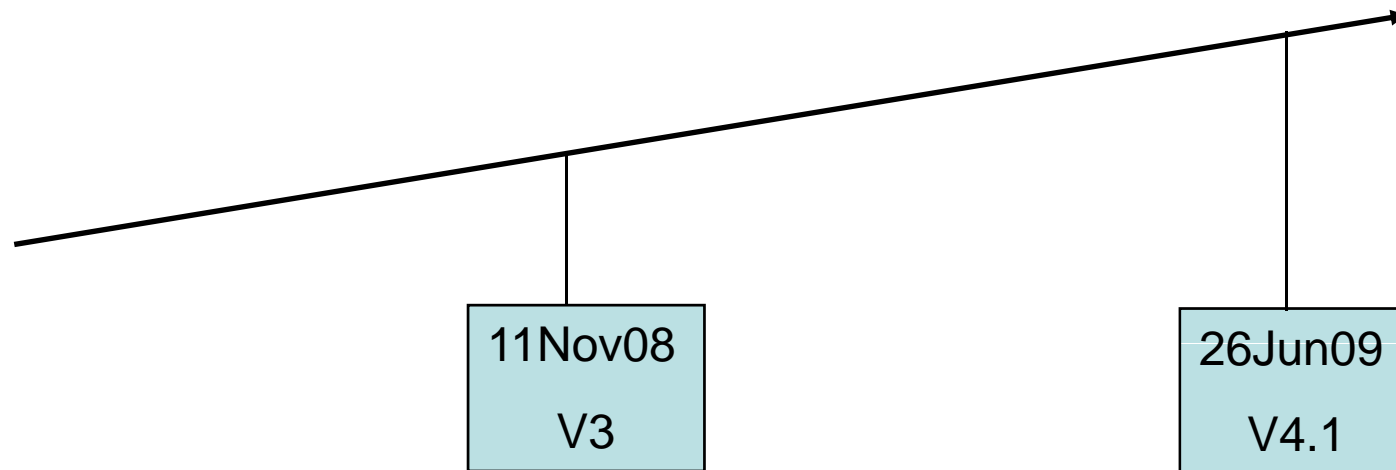
URL	LANGUAGE	SIZE(Bytes)
<a href="#">CICS Explorer ReadMe</a>	US English	9393

**Download package**

Download	RELEASE DATE	LANGUAGE	SIZE (Bytes)	Download Options
(CS1J)CICS Explorer V1.3 - Windows	28/04/2009	US English	115026421	<a href="#">HTTP</a>
(CS10)CICS Explorer V1.3 - Linux	28/04/2009	US English	106284699	<a href="#">HTTP</a>
(CS1N)CICS tools plugins V1.3	28/04/2009	US English	10593139	<a href="#">HTTP</a>
(CA1R)CICS Explorer SDK	28/04/2009	US English	13994728	<a href="#">HTTP</a>

# Why What When How

*<V3 Demo>*



# V3 to V4 comparison

- ***Version 3.n***

- *Operations and Administration – Read only viewers*
- *Connection through CICSplex SM WUI server*

- ***Version 4.1***

- *Actions against RDO resources and CICSplex SM BAS definitions – Read/Write*
- *Connection to single region for RDO and CSD definitions*
- *Support for V4.1 features - Event Processing, ATOM Feeds*

## CICS TS V4.1

The screenshot shows a web browser window titled "IBM - CICS Transaction Server for z/OS V4.1 - Software - Microsoft Internet Explorer". The address bar shows the URL "http://www-01.ibm.com/software/http/cics/teserver/v41/". The page content includes a navigation menu on the left with items like "Features and benefits", "System requirements", "Library", "News", "How to buy", "Events", "Training and certification", "Services", and "Support". The main content area features a large graphic with the text "CICS Transaction Server 4.1" and a diamond-shaped logo containing "CICS TS 4.1". Below this is an "Overview" section with a sub-header "CICS Transaction Server for z/OS v4.1 is a modern, dependable, and cost effective application platform." and a paragraph describing the version's benefits. To the right of the overview is a "Learn more" section with links for "Features & benefits", "System requirements", "Product library", "Use and maintain", "Product support", and "Training and certification". Below the overview is a "G8E Nordic Region Conference" announcement. On the far right, there is a "We're here to help" section with links for "Request a quote", "E-mail IBM", and contact information. Below that is a "Highlights" section with links to white papers. The browser's status bar at the bottom shows "Done" and "Internet".

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The screenshot displays the IBM CICS Explorer interface. On the left, a terminal window shows the following text:

```

E G(CATAPP2)
ENTER COMMA
NAME T
EXMPCAT F
EXMPCONF F
ECFG T
ECLI T
EGUI T
catbundl B
catbundl B
explicit B
Ordering B
WBEBundl B

RESULTS: 1
PF 1 HELP 2

RESPONS
PF 1 HELP

```

The main interface shows the 'IBM CICS Explorer' window with the following components:

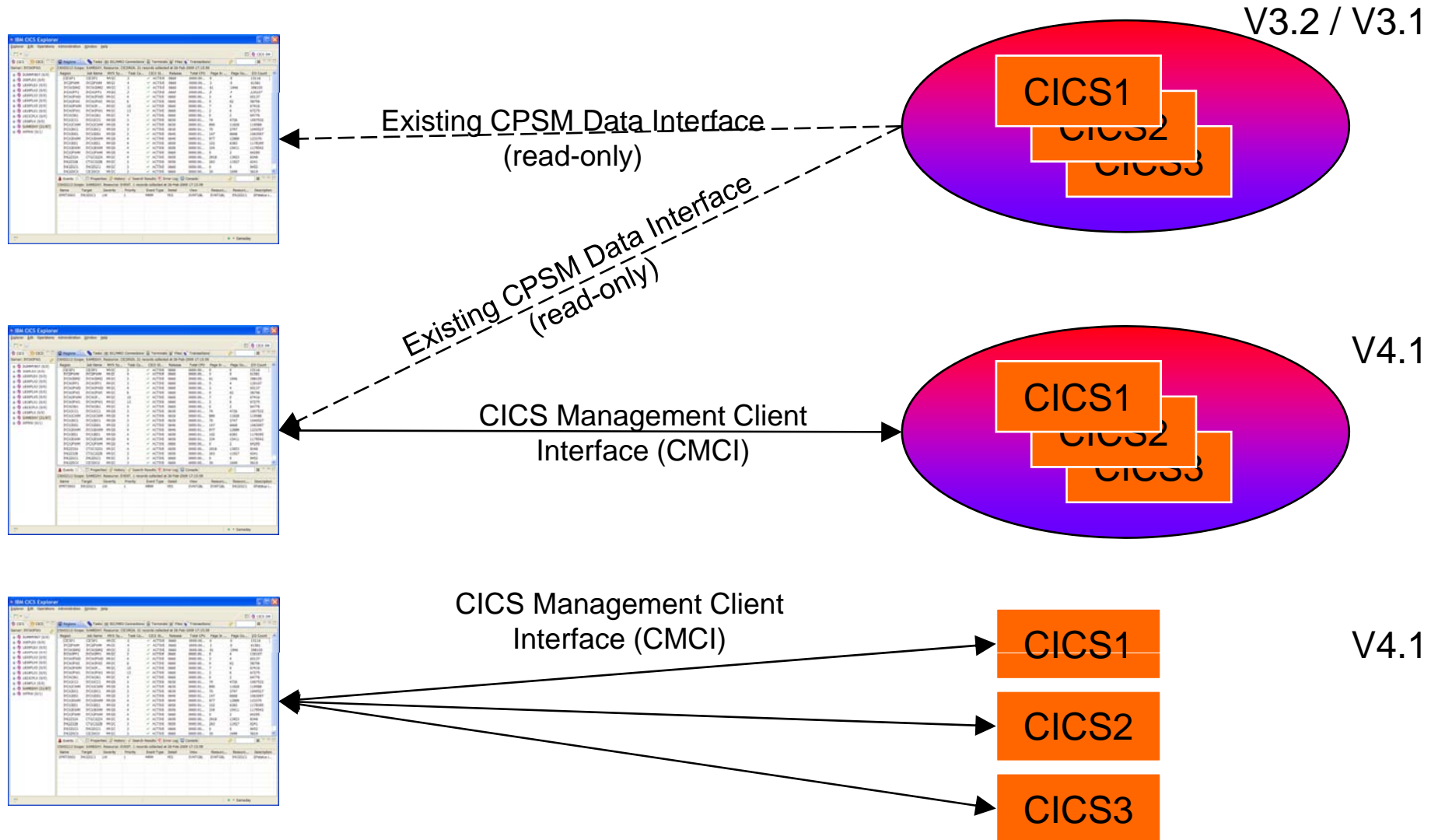
- Explorer Tree:** Shows a tree view with 'CICS Sp' and 'Server: CIGO'. Under 'CICS Sp', there is a folder 'IYCWZCGO' containing 'catbundl' and 'Ordering'.
- Table 1: Bundles**

Region	Name	Status
IYCWZCGO	catbundl	✓ ENABLED
IYCWZCGO	explicit	✓ ENABLED
IYCWZCGO	Ordering	✓ ENABLED
- Table 2: Capture Specifications**

Region	Capture Specification	Event Binding
IYCWZCGO	Check_stock_status_on_rewrite	CatalogManagerEventbinding
IYCWZCGO	CECISigEventCapture	ExplicitEventSpecs
IYCWZCGO	Capture_customers_about_to_order	OrderingPatterns
IYCWZCGO	Capture_order_placing	OrderingPatterns
IYCWZCGO	Capture_Order_Dispatch	OrderingPatterns
- Attributes Panel:** Shows details for the 'Bundle (Ordering)' resource.

Property	Value
Basic	
Basedefinever	0
Basescape	
BundleDir	/u/moxeyc/OrderingP...
CICS Release	E660
Enabledcount	1
Name	Ordering
Partcount	1
Region	IYCWZCGO
Status	✓ ENABLED
Targetcount	1
Resource Signature	
Change Agent	CSDBATCH
Change Agent Release	0660
Change Time	14-May-2009 12:53:57
Change User ID	MOXEYC
Define Source	CATAPP2
Define Time	14-May-2009 12:53:57
Install Agent	CSDAPI
Install Time	08-Jun-2009 09:35:26
Install User ID	CICSUSER

# Why What When How



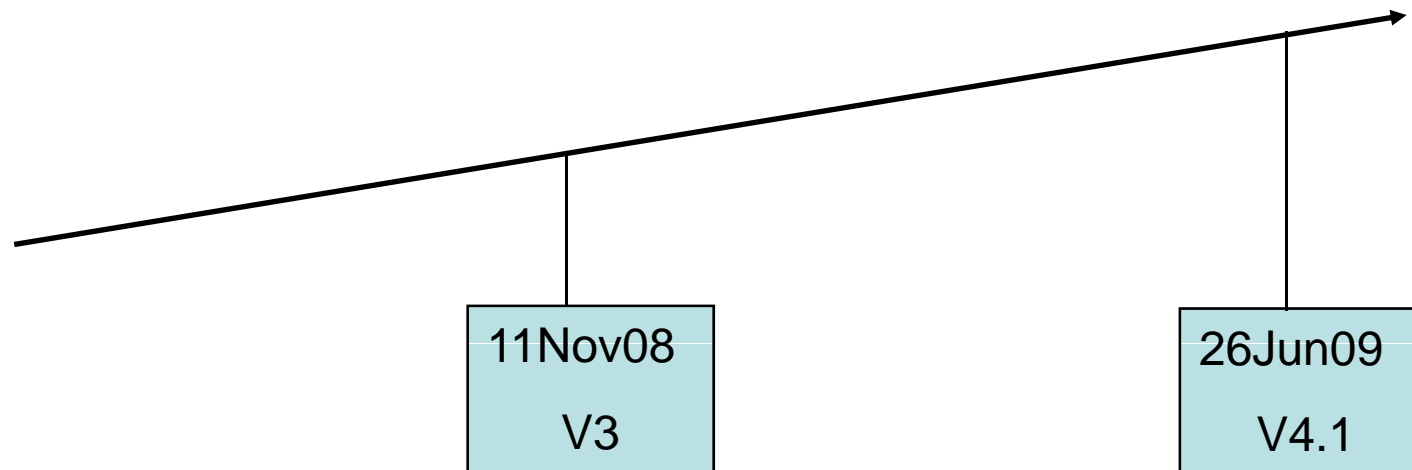


# CMCI

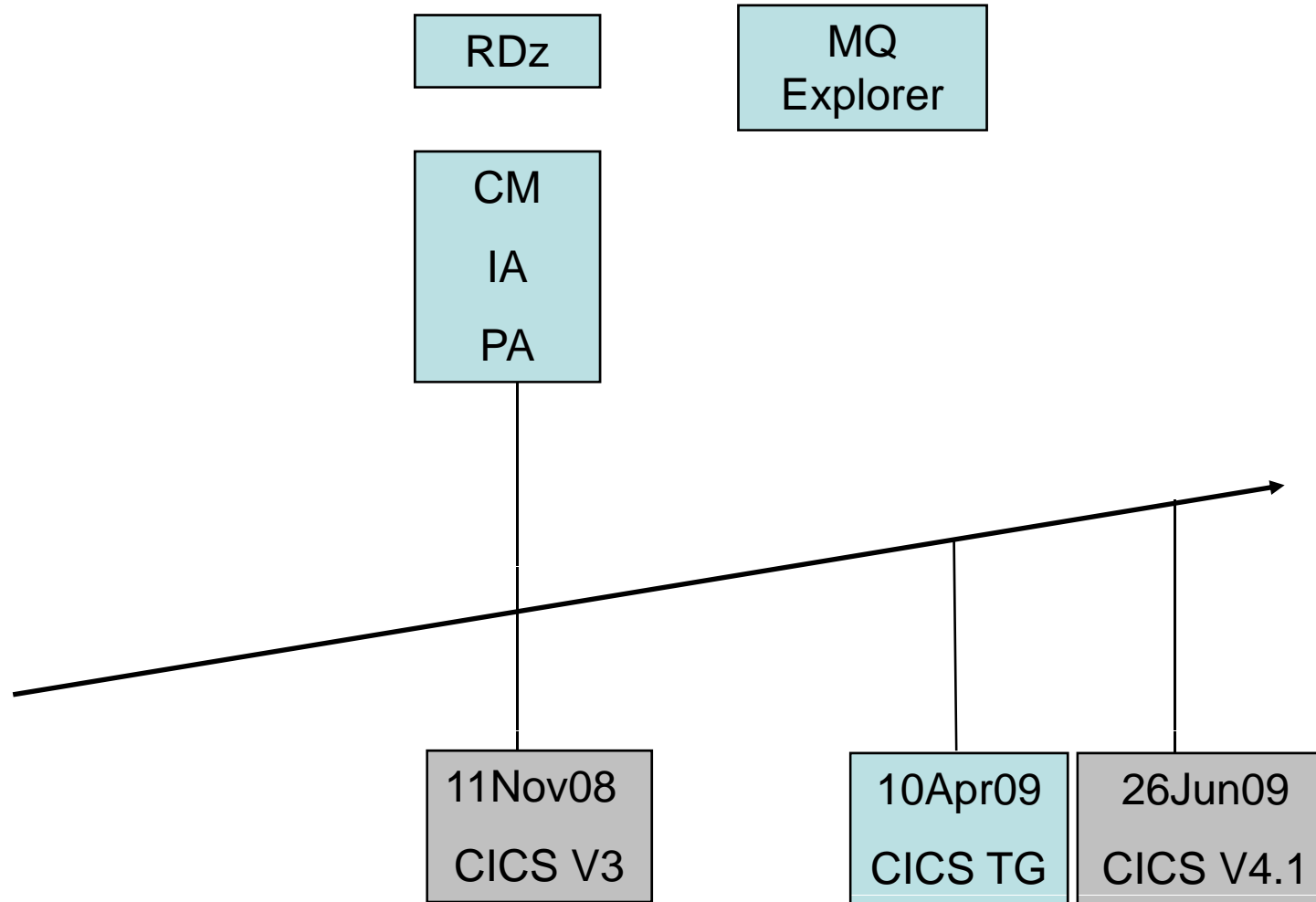
- CICS Management Client Interface (CMCI)
  - REST interface used by CICS Explorer
- CICSplex SM environment
  - Explorer uses CICSplex SM WUI server
  - Manage entire CICSplex from on Explorer connection
  - Including CICS TS V3 regions with V4.1 Explorer capabilities
- Single server environment (SMSS)
  - Configure CICS region for Explorer use
  - Manage a single region at a time

# CICS Explorer for CICS TS V4.1

*<V4 Demo>*



# Explorer Integration



## CICS Explorer – Integration Platform

- CICS Tools
  - CICS Interdependency Analyzer (IA)
  - CICS Configuration Manager (CM)
  - CICS Performance Analyzer (PA)
- Rational Developer for System z
- CICS Transaction Gateway
- WebSphere MQ (PoC)
- Tivoli OMEGAMON for CICS (PoC)
- Custom plug-in's

End of Part 1

Any Questions  
so far?



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