8514: CICS Explorer Update

Matthew Webster
matthew_webster@uk.ibm.com
Important disclaimer

The information in this presentation is provided for information purposes only.

While efforts were made to verify the completeness and accuracy of the information in this presentation, it is provided “as is”, without warranty of any kind, express or implied.

In addition, this information does not form part of IBM’s current product plans and strategy, which are subject to change by IBM without notice.

IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, this presentation or any other documentation.

Nothing contained in this presentation is intended to, or shall have the effect of:

• Creating any warranty or representation from IBM (or its affiliates or its or their suppliers and/or licensors); or
• Altering the terms and conditions of the applicable license agreement governing the use of IBM software.

IBM values your participation and suggestions but makes no commitment to any future product announcement or specific future product content.
Recent Announcements

CICS Explorer

CICS Deployment Assistant for z/OS

CICS Transaction Gateway 8.0

Rational Developer for System z
CICS Explorer Milestones

- **July 2007 - Conception**
- **November 2008 – SupportPac**
  - The New Face of CICS
  - CICSPlex SM connectivity
  - CICS Tools Integration
- **June 2009 – CICS TS V4.1 GA**
  - Full management capability with CICSPlex SM
  - Operations management of SMSS
  - Free supported feature for CICS TS V3
  - Event Processing
  - Explorer SDK
- **September 2010 – CICS Explorer V1.0.1**
  - Management of selected z/OS resources
- **2011**
  - Watch this space!
CICS Explorer – Demonstration (SDK + Eclipse 3.6.1 + JRE)
Single Server Access from Explorer (over CMCI)

CEMT RIP!
CICS Explorer – What’s New

What was new in previous versions

This topic contains an archive of all previous What's New topics.

What's new in version 1.0.0.2
Version 1.0.0.2 adds further enhancements to IBM® CICS Explorer™. Here is a description of the more significant new items available in this version.

What's new in version 1.0.0.3
Version 1.0.0.3 provides a fix for CICS Explorer APAR IZ65446.

What's new in version 1.0.0.4
Version 1.0.0.4 adds further enhancements to IBM CICS Explorer. Here is a description of the more significant new items available in this version.
CICS Explorer – What’s New

- **Version 1.0.0.2 & 1.0.0.4**
  - Ability to display resources in a CICS CSD file
  - Ability to create resource definitions in a single CICS region
  - Ability to copy and paste resource definitions
  - Ability to add a group to, or remove a group from, a list
  - Ability to append one list to another list

- **Version 1.0.0.5**
  - Workload management support
  - Task associations

- **Version 1.0.0.7**
  - New Connection Credentials page in the Preferences view

- **Version 1.0.1**
  - New System z/OS perspective
  - Ability to export and import system connection details
  - Ability to view SIT parameters
CEDA RIP?
CICS Explorer – What’s New

- **Version 1.0.0.2 & 1.0.0.4**
  - Ability to display resources in a CICS CSD file
  - Ability to create resource definitions in a single CICS region
  - Ability to copy and paste resource definitions
  - Ability to add a group to, or remove a group from, a list
  - Ability to append one list to another list

- **Version 1.0.0.5**
  - Workload management support
  - Task associations

- **Version 1.0.0.7**
  - New Connection Credentials page in the Preferences view

- **Version 1.0.1**
  - New System z/OS perspective
  - Ability to export and import system connection details
  - Ability to view SIT parameters
CICS Explorer – What’s New

- **Version 1.0.0.2 & 1.0.0.4**
  - Ability to display resources in a CICS CSD file
  - Ability to create resource definitions in a single CICS region
  - Ability to copy and paste resource definitions
  - Ability to add a group to, or remove a group from, a list
  - Ability to append one list to another list

- **Version 1.0.0.5**
  - Workload management support
  - Task associations

- **Version 1.0.0.7**
  - New Connection Credentials page in the Preferences view

- **Version 1.0.1**
  - New System z/OS perspective
  - Ability to export and import system connection details
  - Ability to view SIT parameters
CICS Explorer – What’s New

- **Version 1.0.0.2 & 1.0.0.4**
  - Ability to display resources in a CICS CSD file
  - Ability to create resource definitions in a single CICS region
  - Ability to copy and paste resource definitions
  - Ability to add a group to, or remove a group from, a list
  - Ability to append one list to another list

- **Version 1.0.0.5**
  - Workload management support
  - Task associations

- **Version 1.0.0.7**
  - New Connection Credentials page in the Preferences view

- **Version 1.0.1**
  - New System z/OS perspective
  - Ability to export and import system connection details
  - Ability to view SIT parameters
CICS Explorer – System z/OS Perspective

![CICS Explorer UI](image)

- **Dynamic Java Profile for CICS**
- **CICS-specific parameters**
- **CICS_HOME=/tsg/cics660**
- **JAVA_HOME=/java/jv6.31/jre.0**
- **CLASSPATH=SUFFIX=.**
- **Options**
- **CLASSCACHE=YES**
- **IDLE_TIMEOUT=30**
- **GC_HEAP_THRESHOLD=85**
- **REUSE=YES**
- **STOIN=DFHJVMIN**
- **STDOUt=/mtest/jvprof/ICYWEFF1/DFHJVMOUT**
- **STDErr=/mtest/jvprof/ICYWEFF1/DFHJVMERR**
- **Unix System Services Environment Variables**
- **JAVA_DUMP_TRACE_PATTERN=ST.TESTS.T0175424.&APPLID;.&JVM_NUM**
- **JVM options**
- `-Xms16M`
- `-Xmx16M`
- `-Xoss12K`

**Properties**
- **Class**: A
- **Completion**: NORMAL
- **Completion Code**: 0
- **ID**: JOB85191
- **Name**: IYCWEFF1
- **Status**: OUTPUT
- **User**: MQTEST
TSO RIP ;-}
## Capability Matrix (GA) – CICSPlex SM

<table>
<thead>
<tr>
<th></th>
<th>Example</th>
<th>Views</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operations</strong></td>
<td>Regions</td>
<td>Large subset (40+)</td>
<td>Enable / Disable, Discard, …</td>
</tr>
<tr>
<td><strong>Administration</strong></td>
<td>Transaction Definitions</td>
<td>All Basic</td>
<td>Create, Update, Install, Delete, Add/Remove</td>
</tr>
<tr>
<td><strong>Topology</strong></td>
<td>CICSPlex</td>
<td>Subset</td>
<td>Create</td>
</tr>
<tr>
<td><strong>RTA Events</strong></td>
<td>RTA Outstanding Events</td>
<td>Small subset</td>
<td>No</td>
</tr>
<tr>
<td><strong>WLM</strong></td>
<td>Active Workloads</td>
<td>Small subset</td>
<td>No</td>
</tr>
<tr>
<td><strong>Monitoring</strong></td>
<td>Active Monitor Specifications</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
## Capability Matrix (GA) – CICS (Single Server)

<table>
<thead>
<tr>
<th></th>
<th>Example</th>
<th>Views</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operations</strong></td>
<td>Regions</td>
<td>Large subset (40+)</td>
<td>Enable / Disable, Discard, ...</td>
</tr>
<tr>
<td><strong>Administration (Post-GA)</strong></td>
<td>Transaction Definitions</td>
<td>All Basic</td>
<td>Create, Update, Install, Delete, Add/Remove</td>
</tr>
<tr>
<td><strong>Topology</strong></td>
<td>CICSpex</td>
<td>Subset</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>RTA Events</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>WLM</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Monitoring</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
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 Explorer Updates: September 2009, January 2010, October 2010

- We intend to continue delivering updates to Explorer (and CICS Tools) at least every 90 days
  - Exploit Post-GA capability e.g. CSD access
  - Surface capability for the broader platform
  - 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

- **Embracing, extending and enhancing capability of the CICSPlex SM WUI**
  - Familiar appearance & workflow for administration and operational tasks
  - Leveraging Eclipse platform for customization and task-oriented interface
  - Consistent definition repository access (DREP & CSD)

- **Reducing dependence on a 3270 interface**
  - CEMT capability for single server
  - CEDA capability for single server and CICSplox
  - TSO/ISPF capability via FTP for all users
CICS Explorer – Integration Platform

- **CICS Tools**
  - CICS Interdependency Analyzer (IA)
  - CICS Configuration Manager (CM)
  - CICS Performance Analyzer (PA)
  - CICS Deployment Assistant (DA)

- **CICS PD Tools**
  - IBM Application Performance Analyzer
  - IBM Debug Tool
  - IBM Fault Analyzer

- **CICS Transaction Gateway**

- **CS1Q: WebSphere MQ Explorer**

- **Tivoli OMEGAMON XE for CICS**
CICS Transaction Gateway Plug-in
By using the CICS Explorer SDK in conjunction with simple Eclipse extension mechanisms such as selection listeners and pop-up menu contributions the CICS Tools are able to integrate with a live CICS model and allow the user to create rich information perspectives.
CICS TS Explorer

Region tree

Resource types:
- programs
- transactions
- files
- RPL list

CICS TS Explorer program list
CICS Explorer SDK

Overview

The Eclipse software development kit is the development environment used to develop plug-ins for the Eclipse platform. It provides first-class Java programming tools, and plug-in development tools for building Eclipse-based applications and extensions.

Workbench basics
Learn about basic Eclipse workbench concepts

Java development
Get familiar with developing Java programs using Eclipse

Team support
Find out how to collaborate with other developers

Eclipse plug-in development
Learn how to extend Eclipse by building new plug-ins

IBM CICS Explorer
About IBM CICS Explorer

IBM CICS Explorer @ ibm.com
IBM CICS Explorer on the IBM website
CICS Explorer – Something for Everyone

- **Unified interface for larger V4 customers**
  - Consistent access to CICS for SMSS, CICSplex and CICS CM
  - Management of selected z/OS resources

- **Modern interface for smaller V4 customers**
  - Full management capability without CICSPlex SM
  - Management of selected z/OS resources

- **Supported experience for V3 customers**
  - Read-only access to CICSpex
  - Management of selected z/OS resources

- **Integrated environment for CICS Tools customers**
  - Seamless transition between views

- **Extensible platform for 3rd parties**
  - Extend Explorer or integrate existing capability with the SDK

- **System Programmer or Application Developer**
  - Systems Management and Operations
  - Event Processing
  - RDz integration

- **Windows, Linux or Mac OS**
Questions
Other Sessions

- **Monday**
  - 8262: *CICS TS 4.1 Technical Overview*

- **Tuesday**
  - 8265: *CICS JVM Server*

- **Wednesday**
  - 8277: *CICS and VSAM RLS User Experience*
  - 8276: *CICS High Availability*

- **Thursday**
  - 8272: *Best Practices for CICS Systems Management*
  - Lunch & Learn 207B: *CICS Requirements and strategic directions*
  - 8514: *CICS Explorer Update*
  - 8280: *CICS Question Box and Pot Luck*

- **Friday**
  - 8281: *TCP/IP for CICS Systems Programmers*
  - 8263: *Testing Through the Eyes of CICS System and Application Programmers*
  - 8294: *CICS Systems Management - Hands on Lab*
More Information

- **IBM CICS Explorer**

- **CICS Family News**

- **Podcasts**

- **Blog**
  - [http://masterterminal.wordpress.com/](http://masterterminal.wordpress.com/)

- **developerWorks Forum**