# "Deploying CICS with Right Clicks" CICS Deployment Assistant 

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## CICS Topology?

What is running on your System z?
Who knows how to obtain this information?

- Skills
- Who knows what the current system topology looks like?
- Who has the skills to discover the current topology?
- Where is the knowledge?
- Time to value and Return on your investment
- Discovery
- Efficiently obtaining topology information
- Reporting
- Where are your investments?
- What address spaces are executing in your Sysplex?
- What are all these address spaces?
- What could be affecting your MLC?
- How is the system upgrade going?
- Which MVS images are my CICS assets executing within?
- What is connected to what?


## CICS Deployment Assistant for z/OS

## What is it?

- A tool to help provision the CICS Environment, providing discovery and visualization features that provide insight into the overall CICS Ecosystem.


## What's its value?

- Topology Visualization
- Simplify tasks, save time, and reduce risk
- Automate many complex provisioning activities
- Significantly reduce the time required to validate CICS topology


## How does it enhance the management of CICS?

- Discovery and Modelling of CICS systems and applications
- Deployment perspective integrates with CICS Explorer Advanced Topology Visualization
- Automated creation, deployment, customization, and control of CICS regions
- Edit files, submit JCL, view output
- Simplify tasks, save time, and reduce risk


## Why is this tool important?

- Improved speed to market
- Reduced chance of failure
- Controlled, governed deployment
- Optimize hardware resources
- Simplify and automate complex tasks
- Plan for mergers and acquisitions
- Help with understanding applications
- Reduce ongoing life cycle costs for managing new CICS systems


## CICS DA V5.1 Architecture



## CICS DA V5.1 - Features and Functions

- Discovery
- Discover your Sysplex, CICS assets and other address spaces
- Visualise graphically the assets and interconnections between them
- Discovery data exporting for reporting
- Delete entities from the model
- Web-style tagging of discovered entities
- Deployment
- Create a new management facility; CMAS \& CICSPlex SM WUI server
- Create new CICSplex
- Create new System Group
- CICSPlex SM manage an unmanaged region by adding it to a CICSplex
- Clone CICS regions


## CICS DA V5.1 - What is Discovered

- Address spaces discovered in the Sysplex and discovered LPARs:
- CICSPlex SM Servers
- CMASs
- Managed CICS regions
- Unmanaged CICS regions
- CICS Transaction Gateways
- Coupling Facility Data Tables
- Named Counter Servers
- MQ
- DB2
- IMS
- Discovered data includes:
- Job name
- Job Id
- CICS version
- CICS connections
- CPSM attributes
- Users can augment the data model:
- Free-form (CSV) tags
- Start and stop policies
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## CICS DA V5.1 - Visualizing discovered data

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Graphical Visualisation: Sysplex view \& Overview

## Tree View



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## CICS DA V5.1 - Visualizing discovered data

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Scoped connections view - in a physical layout



## CICS DA V5.1 - Visualizing discovered data

Scoped connections view - in a logical layout


## CICS DA V5.1 - Visualizing discovered data

## Graphical Visualisation - zoom levels from 50\% to 400\%



## CICS DA V5.1 - Editors and Tagging

- Editors
- Provides base level of information about discovered entities
- Start/Stop policies - JCL/Command
- Tags - Web-style
- Job name
- Job ID
- Program
- z/OS System (aka MVS Image / LPAR)
- Last known status - CICS DA is not a monitoring tool
- Connectivity
- Tagging
- Manual Web2.0 style tagging on discovered entities
- Aids reporting and visualization filtering


## CICS DA V5.1 - Editors

## For Example - "Managed CICS Region" Editor



## CICS DA V5.1 - Tagging

## Adding tags to multiple elements from visualisation



## CICS DA V5.1 - Reporting

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Export to File as CSV


## CICS DA V5.1 - Reporting

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Address Space types in Sysplex


CICS Coupling Facility Data Table Server

- CICS Named Counter Server
- CICS Temporary Storage Queue Server
- CICS Transaction Gateway

CICSPlex SM Server

- CMAS
- Managed CICS Region
- Unmanaged CICS Region


Unmanaged CICS region versions


## CICS DA V5.1 - Deployment

- Selection of deployment actions available - One extended scenario here
- Starting with no CPSM and a selection of unmanaged regions
- Convert to a scalable CPSM managed CICSPlex
- Create CPSM ‘Management Facility’
- Create a CICSPlex to contain our regions
- Bring an unmanaged CICS region under CPSM management
- Clone our managed region
- Demonstrated in a series of videos on IBM Education Assistant:
http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp?topic=/com.ibm.iea.cicsda/plugin coverpage.html


## CICS DA V5.1 - Deployment

Create a CICSplex management facility
Step 1 - update templates (once only)


## Update with your environments HLQs



## CICS DA V5.1 - Deployment

Create a CICSplex management facility
Step 2 - select New->CICSplex management facility


## CICS DA V5.1 - Deployment

## Create a CICSplex

Step 1 - select New->CICSplex


## CICS DA V5.1 - Deployment

'Plexify’ your unmanaged regions


## CICS DA V5．1－Deployment

Clone a managed region

| 包 IYCYZC2N（CICSC351）［MV2E］，［TOOLPLX5］圖 IYDZEJ06（REDFOR42）［MV2F］，［REDBPLEX］ |  |  | CICSplex： MAS： |
| :---: | :---: | :---: | :---: |
| 圖 IYDZEJ07（REDDVA42）［MV2F］，זDEnomick |  |  |  |
| 圖 IYDZEJOA（REDDVB42）［MV2F］， |  | New | ， |
| 回 IYDZZ418［MV2F］，［CICSIAPL］ |  | Open |  |
| 回 IYDZZ514［MV2F］，［CICSIAMM］ | $\bigcirc$ | Edit tags．．． |  |
| 圆 IYDZZ518［MV2F］，［CICSIAPL］ | $\%^{5}$ | Refresh Status | F5 |
| 圖 IYDZZ519［MV2F］，［CICSIAPL］ | ＊ | Delete from model | Delete |
| －CICS Regions－Unmanaged（30） | $\checkmark$ | Start region |  |
| $\checkmark$ CICS System Groups（14） |  | Stop region |  |
| －CMAS Networks（8） |  | Clone Region |  |
| $\checkmark$ CMASs（9） |  |  |  |
| －DB2（8） |  | Dependencies |  |
| －$\square$ IMS（1） | $\leftrightarrows$ | Transaction summary |  |
| 1．WebSnhere M0（3） |  | Show SIT Parameters |  |
| －Jobs 23 | 頤 | Show in CICS Explorer |  |
| Job Name：REDDVA42 User：＊ |  | Find DB2 Resources |  |
| ．REDDVA42－STC06772（CTOO |  | Find MQ Resources |  |



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## CICS DA V5.1 - Summary

## Value of CICS Deployment Assistant for z/OS V5.1

- Reduce costs, risks, and dependency on specialized CICS skills
- Discover your systems' topology quickly
- View, print, and manage your CICS infrastructure
- Deploy new environments rapidly
- Promote standardization and reduce complexity
- Simplify and automate complex tasks
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