International Technical Support Organization

Using the CPSM WUI

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Agenda

- Creating a WUI server
- The WUI screen structure and view types
  - Assistance frame, Navigation frame, Work area
  - Tabular views, Detail views, Confirmation panels
- Customised views
- CICS TS 3.1 WUI Enhancements
  - BATCHREP
  - Dynamic selection lists
  - Filter Confirmation
  - Warning Count
  - Expand / Collapse Filters
  - Two Column Detail Views
  - User Favorites
  - User Groups

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What is the WUI?

- Familiar Browser environment
  - Runs in any browser that supports HTML 4
  - Can carry out all operational and administrative tasks for monitoring and controlling CICS resources and systems
- WUI sessions controlled via CICS system acting as WUI Server
- Can create your own customized views
  - Limit data displayed for uncluttered views
  - Structure views and data in task-oriented ways
  - Use graphical representations of data
  - Use your own terminology

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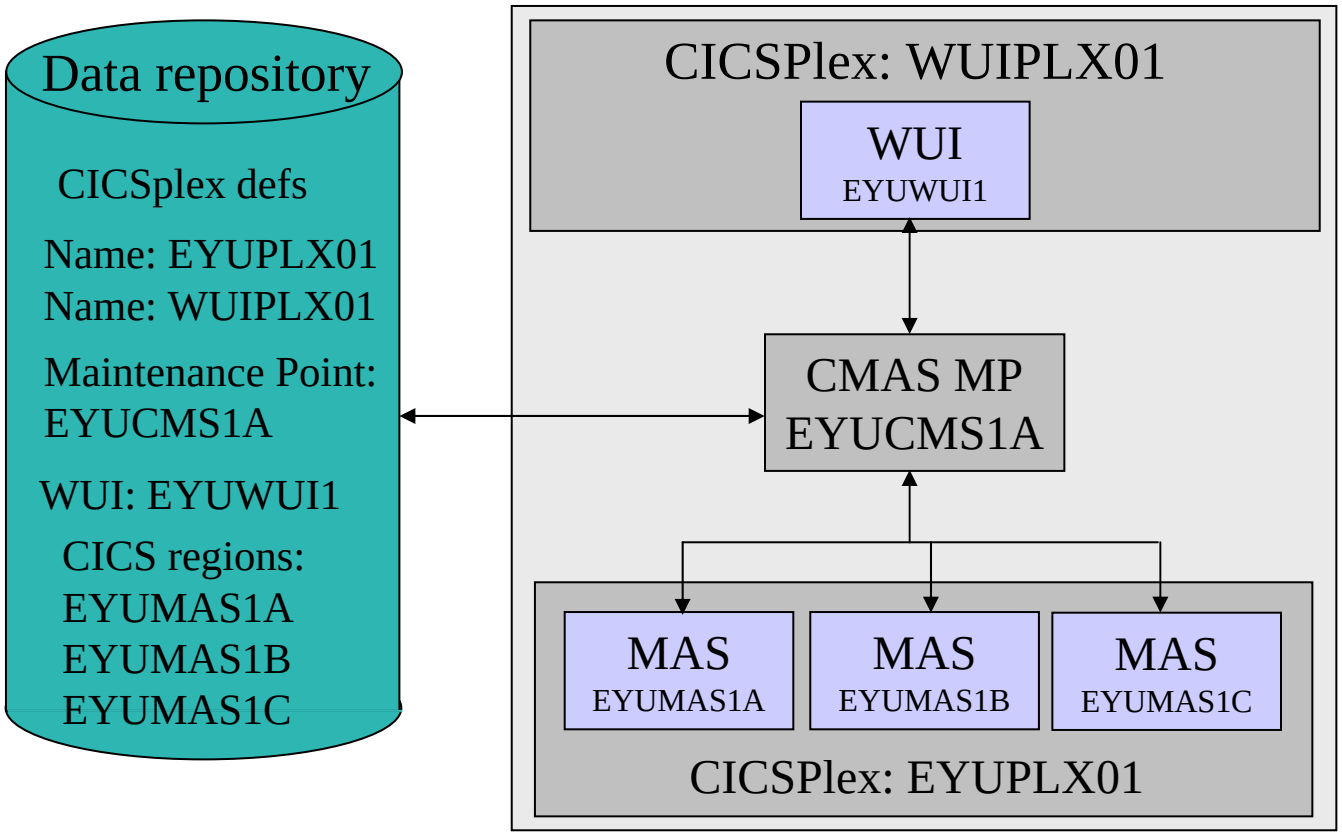
Creating a WUI Server

- Recommended that WUI servers are kept in their own CICSplex.
- The MP CMAS for the WUI server CICSplex could also be MP CMAS for the managed CICS systems CICSplex.



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Creating a WUI server

- Requires creation of a new CPSM MAS for appropriate CICSplex.
- Create a WUI repository
  - Holds imported WUI views and menus.
- Update CICS conversion table
- Alter CICS JCL to include WUI datasets and parameters
- If you want to export you own views you need to create a WUI export dataset

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Create a WUI Repository

```
/*
//DEFWREP    EXEC  PGM=IDCAMS
//SYSPRINT   DD    SYSOUT=*
//SYSID      DD     *

  DEFINE CLUSTER  (                                          -
                   NAME( &DSHLQ.EYUWREP )                    -
                   STORCLAS( STANDARD )                      -
                   RECORDS( 5000 5000 )                      -
                   CONTROLINTERVALSIZE( 8192 )               -
                   SPANNED                                   -
                   INDEXED                                   -
                   SHAREOPTIONS( 2 )                         -
                  )                                          -
           DATA   (                                          -
                   NAME( &DSHLQ.EYUWREP.DATA )               -
                   KEYS( 20 20 )                             -
                   RECORDSIZE( 8192 32000 )                  -
                  )                                          -
           INDEX  (                                          -
                   NAME( &DSHLQ.EYUWREP.INDEX )              -
                  )
/*
```


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Update Conversion Table (DFHCNV)

```
DFHCNV TYPE=INITIAL
*
         DFHCNV TYPE=ENTRY,RTYPE=PC,RNAME=DFHWBHH,USREXIT=NO,          *
                SRVERCP=037,CLINTCP=8859-1
         DFHCNV TYPE=SELECT,OPTION=DEFAULT
         DFHCNV TYPE=FIELD,OFFSET=0,DATATYP=CHARACTER,DATALEN=32767, *
                LAST=YES
         DFHCNV TYPE=ENTRY,RTYPE=PC,RNAME=DFHWBUD,USREXIT=NO,          *
                CLINTCP=8859-1,SRVERCP=037
         DFHCNV TYPE=SELECT,OPTION=DEFAULT
         DFHCNV TYPE=FIELD,OFFSET=0,DATATYP=CHARACTER,DATALEN=32767, *
                LAST=YES
*
         COPY EYU$CNV1
*
         DFHCNV TYPE=FINAL END
```

Must be added to conversion table.
Contained in CICSTS31.CPSM.SEYUSAMP

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EYU$CNV1 for WUI

```
         DFHCNV TYPE=ENTRY,RTYPE=PC,RNAME=EYUENU1,USREXIT=NO,          *
                CLINTCP=8859-1,SRVERCP=037
         DFHCNV TYPE=SELECT,OPTION=DEFAULT
         DFHCNV TYPE=FIELD,OFFSET=0,DATATYP=CHARACTER,DATALEN=32767,  *
                LAST=YES
*
         DFHCNV TYPE=ENTRY,RTYPE=PC,RNAME=EYUJPN1,USREXIT=NO,          *
                CLINTCP=943,SRVERCP=939
         DFHCNV TYPE=SELECT,OPTION=DEFAULT
         DFHCNV TYPE=FIELD,OFFSET=0,DATATYP=CHARACTER,DATALEN=32767,  *
                LAST=YES
*
         DFHCNV TYPE=ENTRY,RTYPE=PC,RNAME=EYUCHS2,USREXIT=NO,          *
                        CLINTCP=5488,SRVERCP=1388
         DFHCNV TYPE=SELECT,OPTION=DEFAULT
         DFHCNV TYPE=FIELD,OFFSET=0,DATATYP=CHARACTER,DATALEN=32767,  *
                LAST=YES
```


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Alter CICS JCL

- CICS SIT parameters to update
  - INITPARM=(EYU9VKEC='xxx',EYU9VWAN='yyyy')
    - xxx is ENU for English, JPN for Japanese, CHS for Chinese
    - yyyy is ENU1 for English, JPN1 for Japanese and CHS1 or CHS2 for Chinese
  - CPSMCONN=WUI
    - CICS SIT parameter used in all CPSM systems (can equal CMAS, LMAS, WUI)
  - GRPLIST= *name of list that includes that includes group* EYU310G1 and EYU310GW
    - For example EYU310GW could be added to the list for your MAS (which will include EYU310G1)

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Alter CICS JCL

- Main DD statements to be added to CICS JCL
  - **EYUWREP**
    - This DD statement points to the WUI repository
  - **EYUCOVI**
    - Points to a View import dataset
  - **EYUWUI**
    - Points to the WUI server initialisation parameters

  - **Example**

```
//EYUWREP DD DISP=SHR,DSN=data set name
//EYUCOVI DD DISP=SHR,DSN=CICSTS31.CPSM.SEYUVIEW(EYUEVX01)
//EYUWUI DD *
  TCPIPHOSTNAME(MVSXX.COMPANY.COM)
  TCPIPPORT(4445)
  DEFAULTCONTEXT(EYUPLX01)
  DEFAULTSCOPE(EYUPLX01)
  DEFAULTCMASCTXT(EYUCMAS1A)
  AUTOIMPORTTDQ(COVI)
/*
```

Required WUI parameters

Recommended optional parameters

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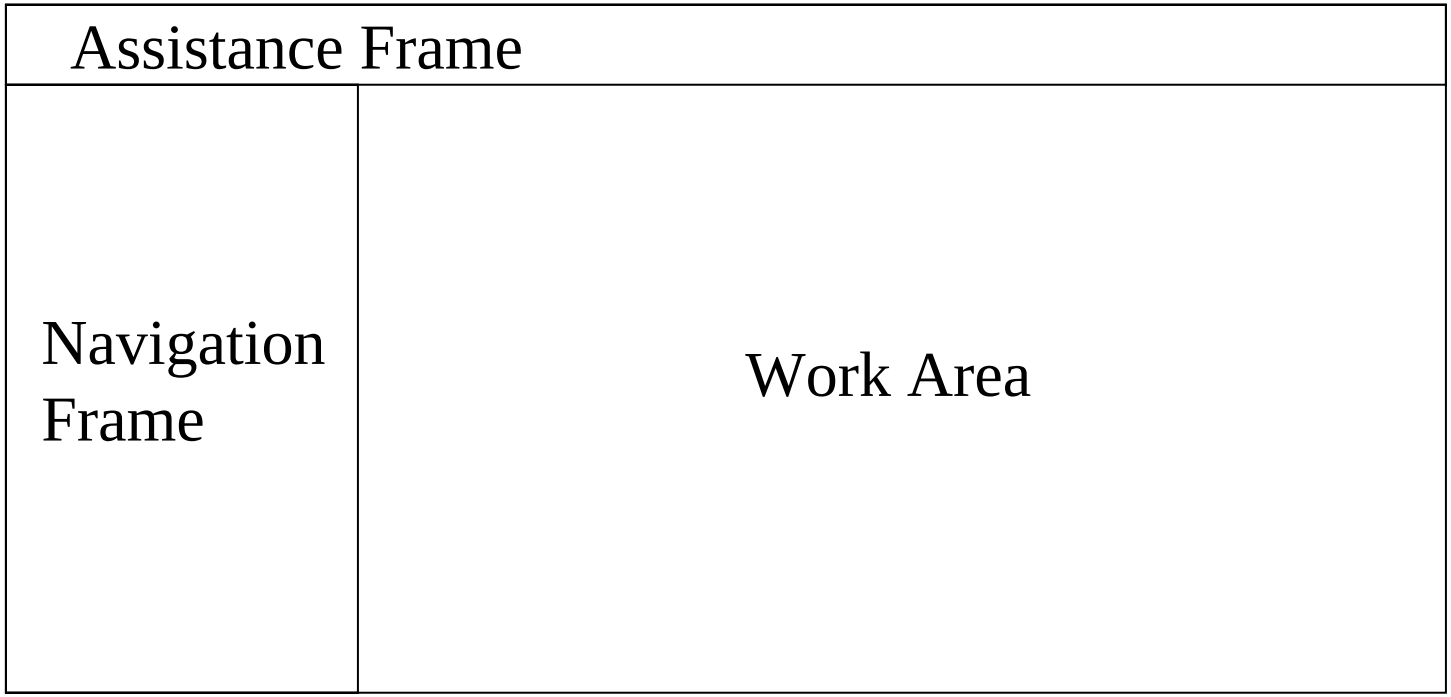
WUI Screen

- WUI screen made up of three frames
  - Assistance Frame
  - Navigation Frame
  - Work Area



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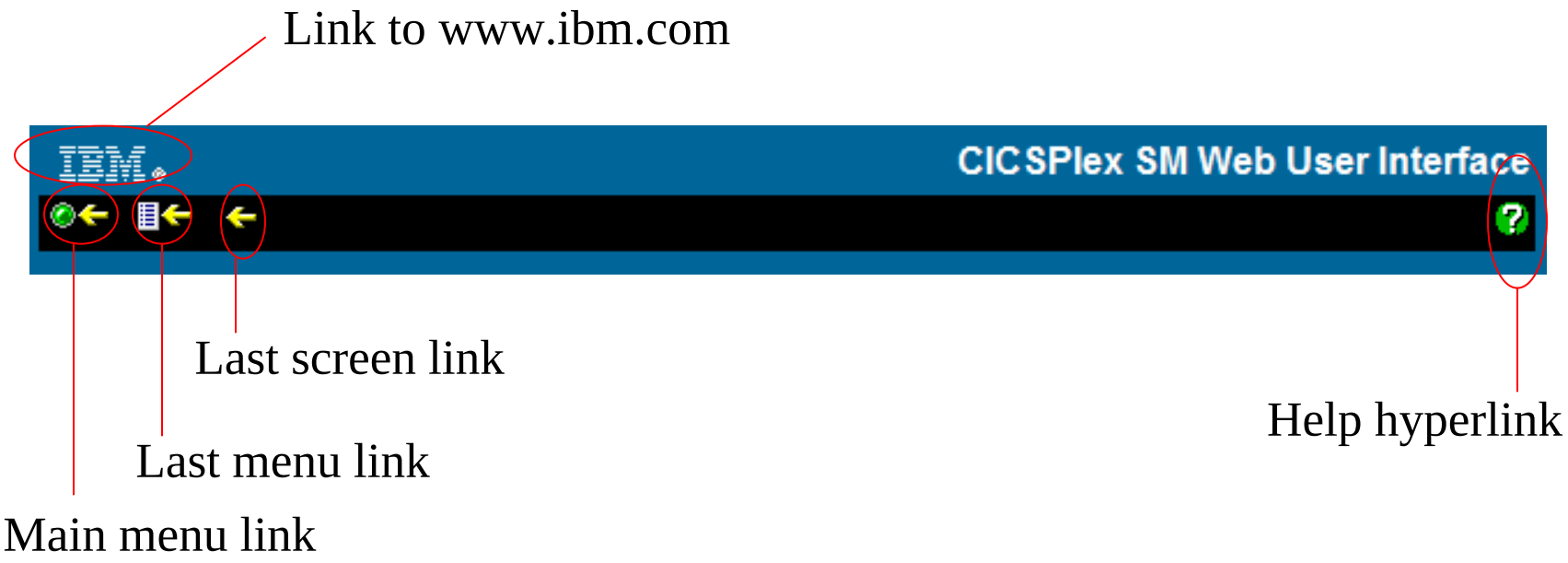
Assistance Frame



- Main menu link – displays main menu in Work Area
- Last menu link – displays last visited menu in Work Area
- Last screen link – displays previous view in Work Area
- Help hyperlink – launches a new browser window with general help information

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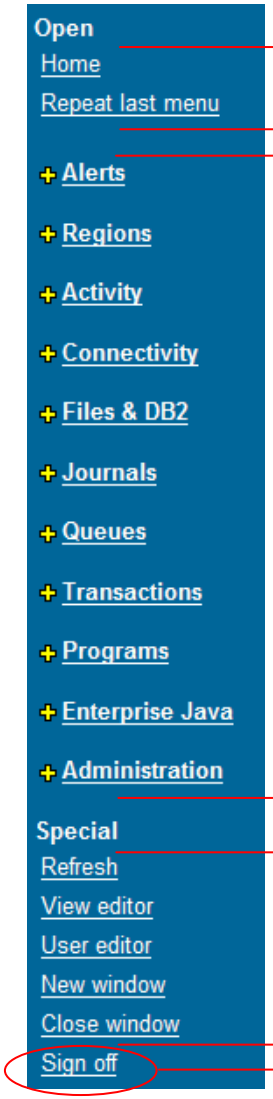
Navigation Frame



Main menu / Last menu links

Links to views (modifiable)

Links to manage Editors and Windows

Sign off from WUI

- Allows access to views without clicking through menus
- View links can be customised through View Editor
- Users can add commonly used views for rapid access

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Work Area

Local or dynamic transaction

EYUVC1280I 4 records collected at 08/25/05 13:06:11.

Context: DWDPLEX1
Scope: DWDPLEX1
Transaction ID: = DB* Aa
Enabled status: =

Automatic refresh: 60 seconds.
Refresh

4 records on 1 pages.

Record	CICS system name	Transaction ID	Enabled status	Number of times transaction used	First program name	Transaction priority	Transaction class name	Purgeability option	Transaction dump option	Routing type
1	IYK3ZDD4	DBG0	Disabled	0	EYU9DBG0	1	DFHTCL00	Notpurgeable	Trandump	Static
2	IYK3ZDD4	DBUG	Enabled	0	EYU9DBUG	1	DFHTCL00	Notpurgeable	Trandump	Static
3	IYK3ZDD5	DBG0	Enabled	0	EYU9DBG0	1	DFHTCL00	Notpurgeable	Trandump	Static
4	IYK3ZDD5	DBUG	Enabled	0	EYU9DBUG	1	DFHTCL00	Notpurgeable	Trandump	Static

4 records on 1 pages.

Set attributes... Enable... Disable... Discard...

Resource name: LOCTRAN. View name: EYUSTARTLOCTRAN.TABULAR

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WUI View Types

- Basic WUI Views
  - Tabular
    - Shows basic information for a number of resources at the same time
  - Detail
    - Shows all attributes for a resource
  - Confirmation Panel
    - Shows parameters and attributes to perform an action on a resource
- New to CICS TS 2.2
  - Detail view with Matrix
    - Similar to normal Detail view, but allows the data to be displayed in a multi column table
- New to CICS TS 3.1
  - Two column Detail View
    - Similar to normal Detail view, but allows information to be displayed in two columns instead of one

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Tabular View

Local or dynamic transaction

EYUVC1280I 153 records collected at 09/21/05 13:19:48.

Context: DWDPLEX1
Scope: DWDPLEX1
Transaction ID: = Aa
Enabled status: =

Automatic refresh: 60 seconds. Refresh

153 records on 22 pages. Page: 1 Go to page Next

Record	CICS system name	Transaction ID	Enabled status	Number of times transaction used	First program name	Transaction priority	Transaction class name	Purgeability option	Transaction dump option
1	IYK3ZDD4	CADP	Enabled	0	DFHDPLU	1	DFHTCL00	Purgeable	Trandump
2	IYK3ZDD4	CATA	Enabled	1	DFHZATA	255	DFHTCL00	Purgeable	Trandump
3	IYK3ZDD4	CATD	Enabled	0	DFHZATD	255	DFHTCL00	Purgeable	Trandump
4	IYK3ZDD4	CATR	Enabled	0	DFHZATR	255	DFHTCL00	Notpurgeable	Trandump
5	IYK3ZDD4	CBAM	Enabled	0	DFHECBAM	255	DFHTCL00	Notpurgeable	Trandump
6	IYK3ZDD4	CCIN	Enabled	0	DFHZCN1	254	DFHCOMCL	Purgeable	Trandump
7	IYK3ZDD4	CCRL	Enabled	0	DFHSOCRL	1	DFHTCL00	Purgeable	Trandump

153 records on 22 pages. Page: 1 Next

Set attributes... Enable... Disable... Discard...

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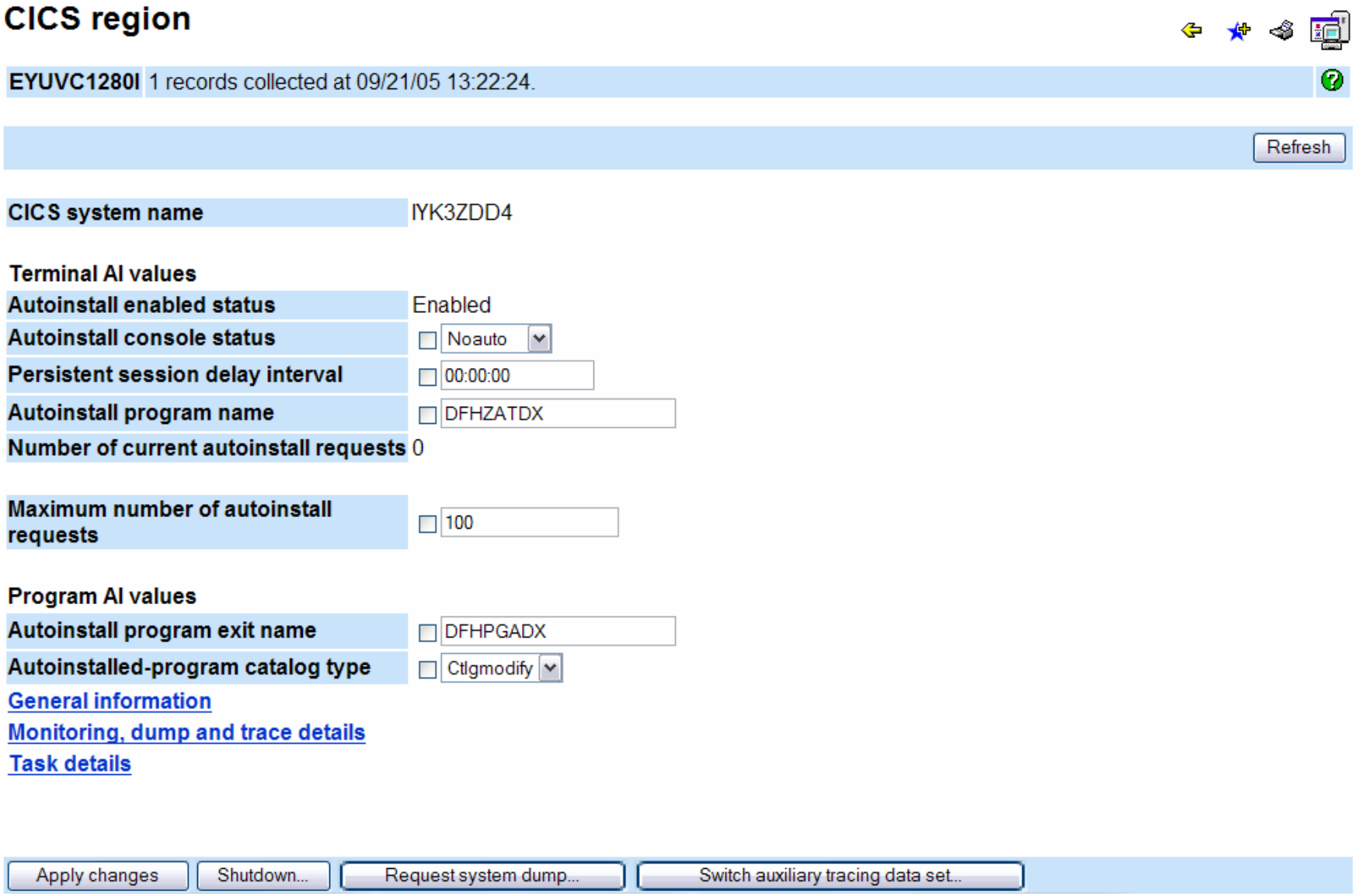
Detail View



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Detail View with Matrix

Dynamic Storage Areas (DSA)

CICS system name	DEWCB8A0
Short on storage status	Notsos
Current DSA limit	6291456
Total storage currently allocated to DSAs	1048576
Peak amount of storage allocated to DSAs	1048576

Extended Dynamic Storage Areas (EDSA)

Dynamic Storage Areas

	CDSA	UDSA	SDSA	RDSA
DSA Size	524288	0	262144	262144
Peak DSA Size	524288	0	262144	262144
Current Free Storage	131072	0	253952	69632
Times Short-on-Storage	0	0	0	0
Times no storage returned	0	0	0	0
Current Subpools (domain and task)	39	19	7	4
Getmain Request	3245	0	12	0
Freemain Request	3245	0	6	0

Apply changes

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Two Column Detail View

Terminal

EYUVC1280I 2 records collected at 08/20/04 11:10:28.

CMAS context: IYK3ZDB1
Context: DWBPLEX1
Scope: DWBPLEX1
Refresh

CICS system name	IYK3ZDB3	**Terminal ID**	CBRF
Access method	Vtam	**Acquire status**	Notapplic
Alternate page height	0	**Alternate page width**	0
Alternate printer		**Hardware COPY feature for alternate printer**	Notapplic
Alternate screen height	0	**Alternate screen width**	0
Alternate-map-set suffix	00X	**APL keyboard feature**	Noaplkybd
APL text feature	Noapltext	**ASCII data stream type**	Notapplic
Automatic transaction initiation (ATI) status	Ati	**Audible alarm feature**	Audalarm
Session binding status	Notapplic	**Background transparency feature**	Backtrans
Extended color feature	Color	**Console ID**	
Copy feature in control unit	Nocopy	**Correlation ID**	
Session creation status	Notapplic	**Device data stream type**	Ds3270
Default page height	24	**Default page width**	80
Default screen height	24	**Default screen width**	80
Device type	T3277r	**Device busy status**	Not applicable
Disconnect Requests status	Discreq	**Dual-case keyboard status**	Nodualcase
Exit tracing status	Notapplic	**Extended data stream support**	Extendedds
Function management header (FMH) option	Nofmhparm	**Forms feed feature**	Noformfeed

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Confirmation Panel

Install

Transaction definition name	TRN1	
Definition version	1	
Definition description		
Target scope value	✓	
Related scope value	☐	
Usage value	✓ LOCAL	(LOCAL, REMOTE)
Mode value	☑ N/A	(N/A, DYNAM, STAT)
Overtype value	☑ NONE	(NONE, TARGET, RELATED, BOTH)
Notify value	☑ NO	(NO, INACTIVE, RELEASE, FULL)
State check value	☑ NO	(NO, YES)
Force install value	☑ NO	(NO, YES)
Override string expression		
Override string	☐	

No Yes

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Create Customised Views

- You can create views in the WUI tailored to the needs of your Enterprise.
  - e.g. sets of views could be created specifically for use by Developers, System Administrators, Help Desk operators.
- Menus and Views can be altered to focus on information considered important.
- Supplied terminology can be overridden.
  - When creating Menus and Views, default terminology can be overridden with terminology specific to your enterprise.
- Links to Web pages not served by the WUI server may be added to Views and Menus.
- Help pages specific to your customised view may be added.

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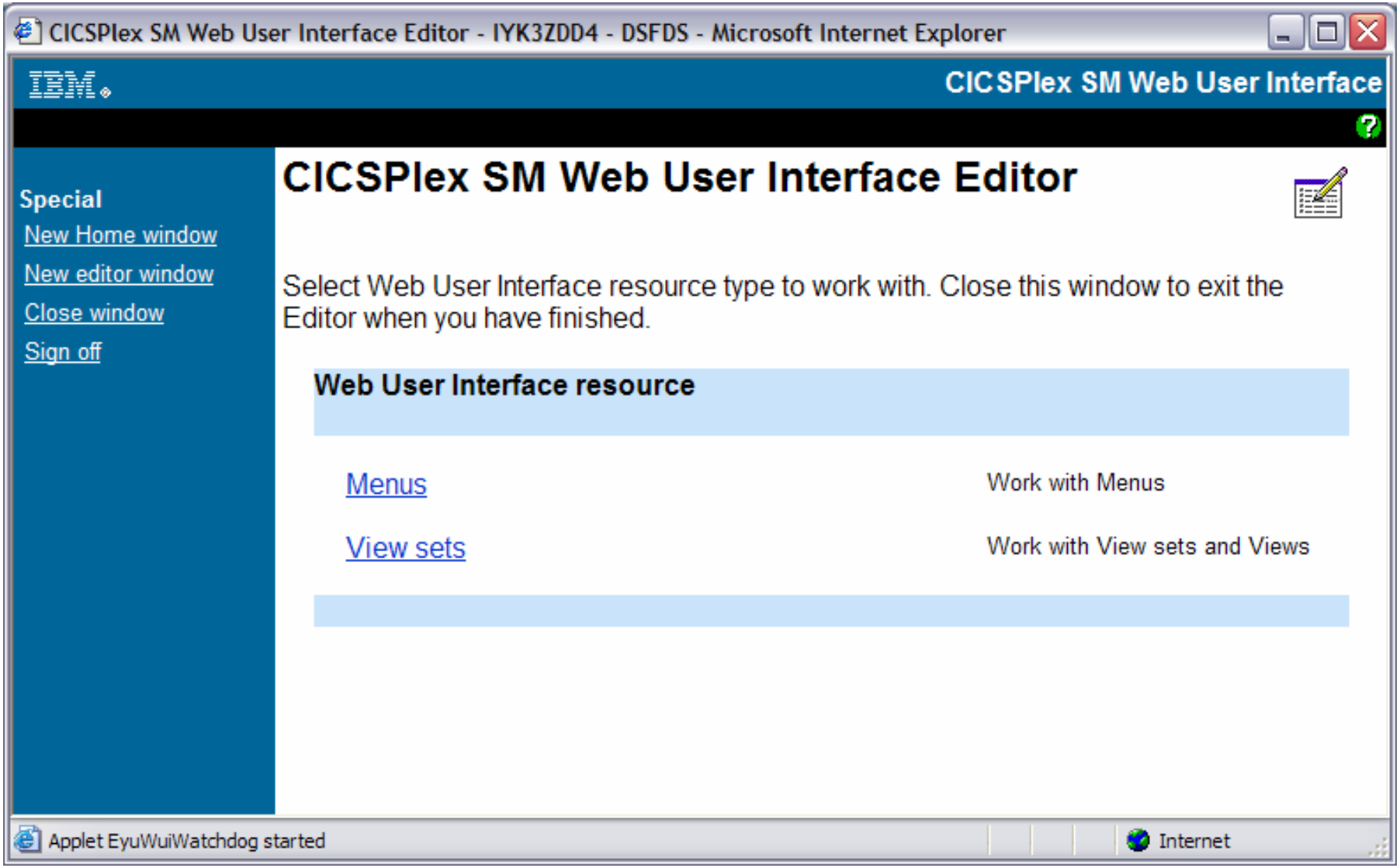
View Editor Main Screen



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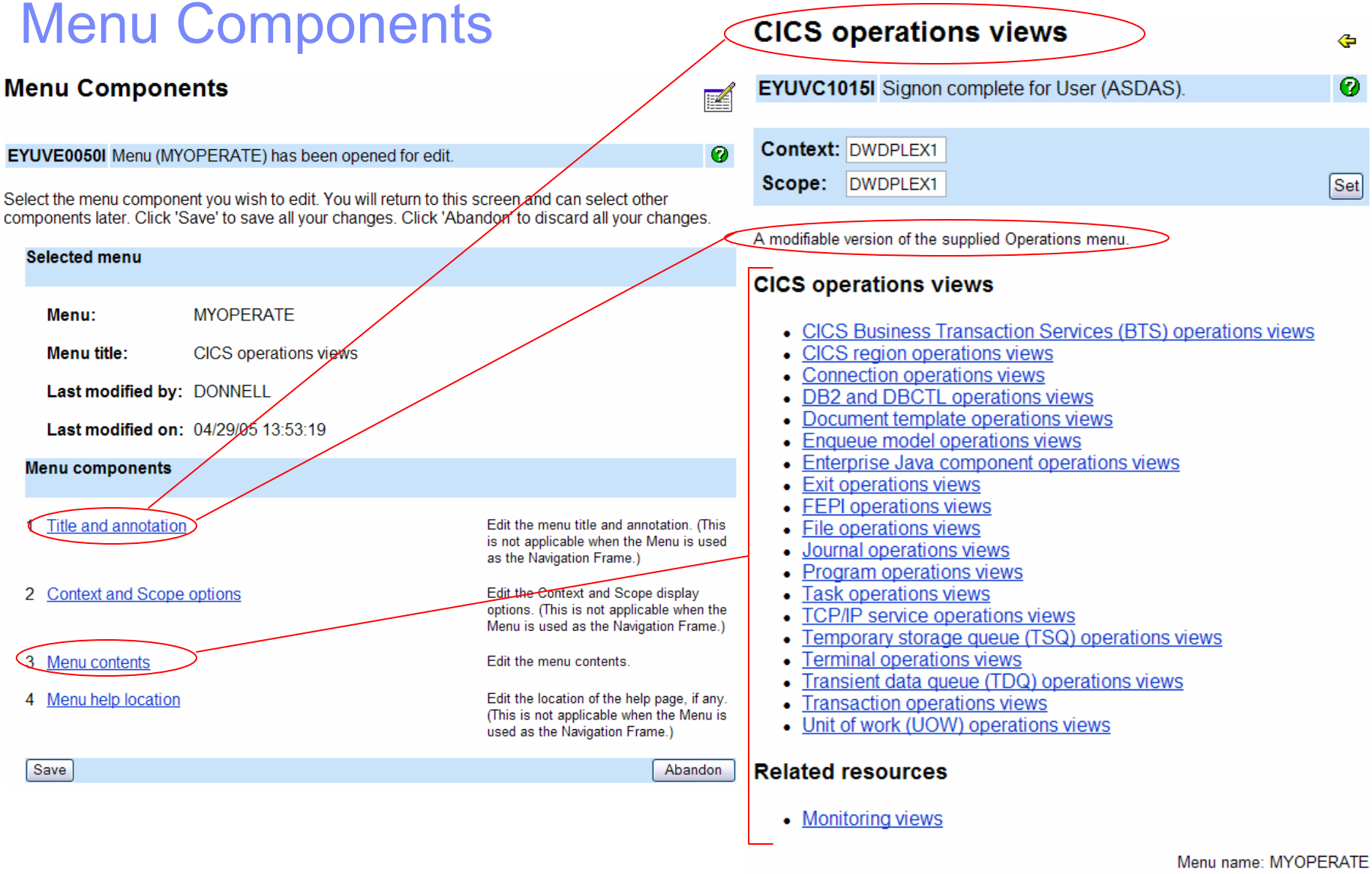
Menu Components



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Menu Contents Screen

Menu Contents

To add a new item to the end of the Menu, click 'Append'. Select an item and click 'Insert' to add a new item above the selected one. To work with an existing item, select the item and click 'Edit' or 'Delete'. Click 'OK' when you have finished.

Selected menu

Menu: EYUSTARTADMCONFG

Menu contents

- **Definitional views**
  - CICSplex definitions
  - CMAS in CICSplex definitions
  - CMAS-to-CMAS link definitions
  - CMAS-to-RMAS link definitions

OK | Append | Insert | Edit | Delete | Cancel

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Tabular View Components

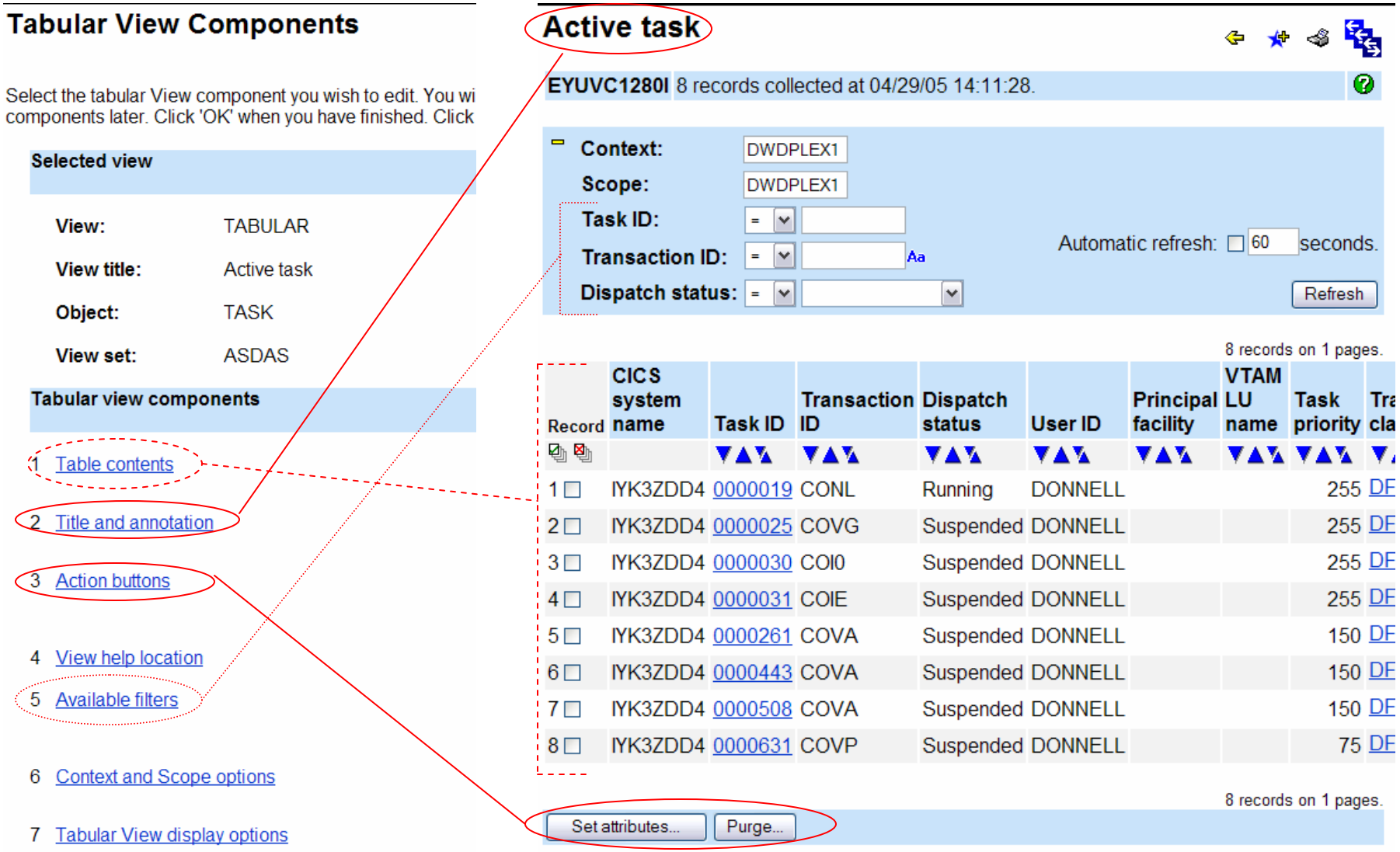

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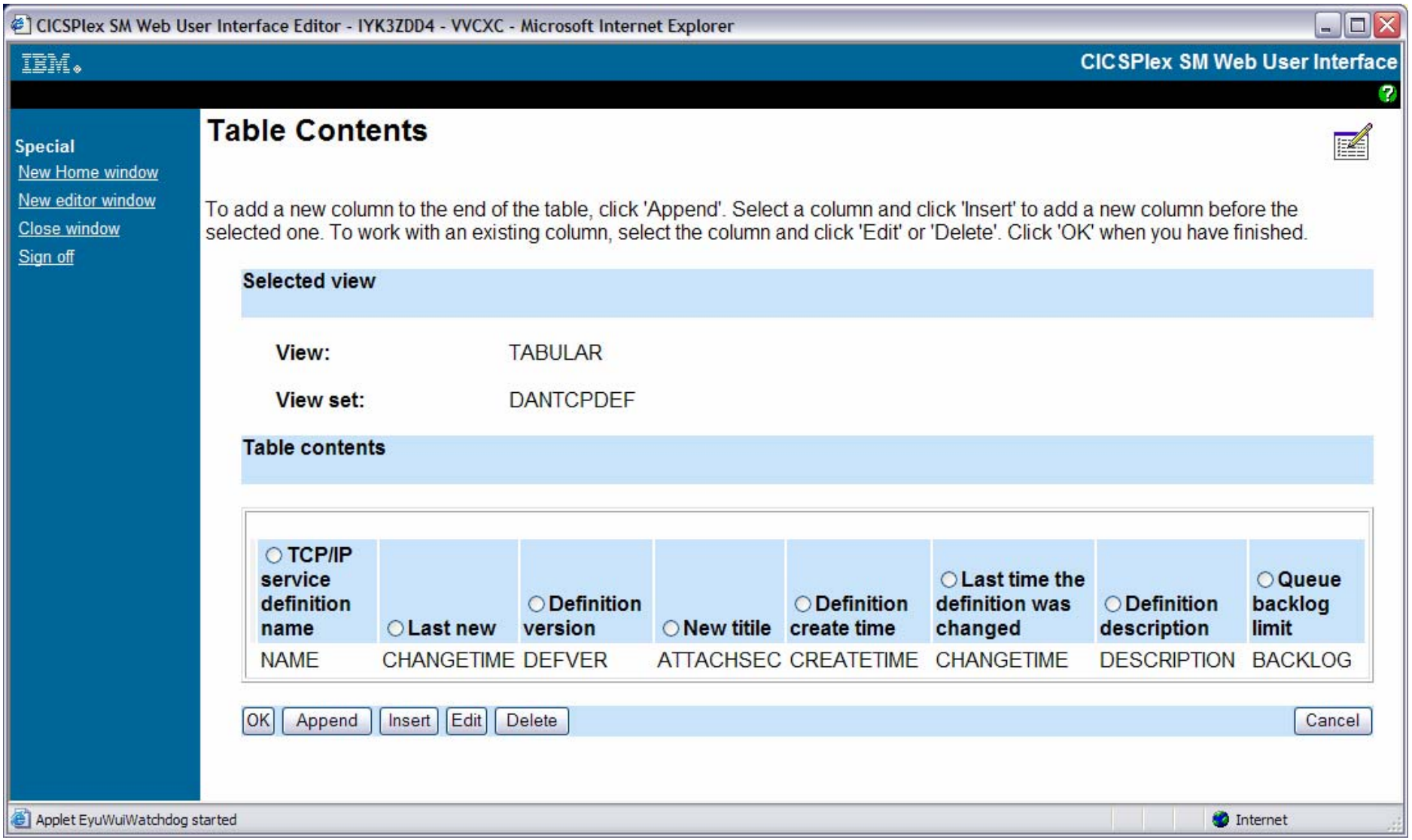
Table Contents Screen



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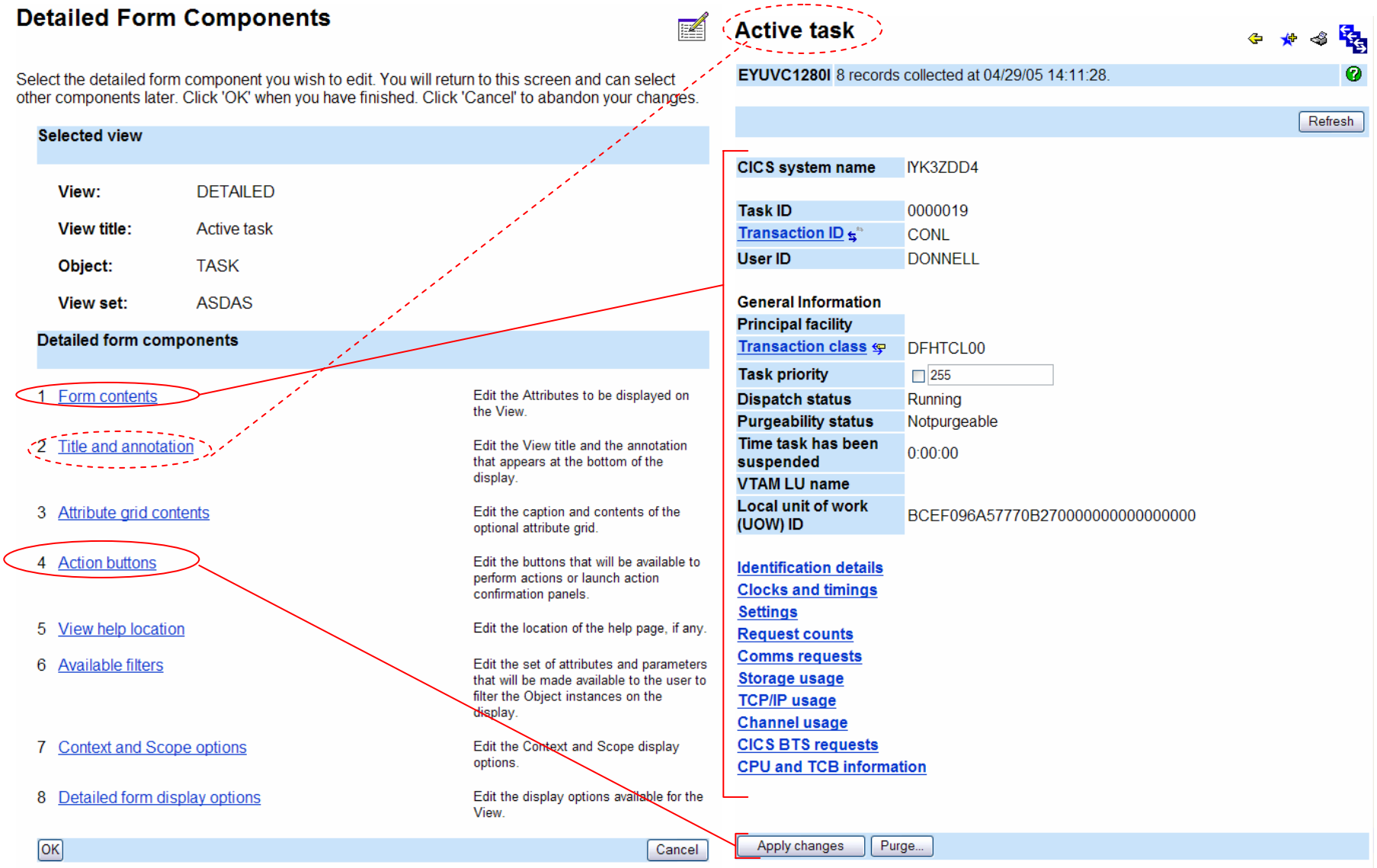
Detail View Components



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Detail Form Contents

Form contents

Test View	
CICS system name	EYU_CICSNAME
Pool name	NAME
Space	
Connection status	CONNSTATUS

OK | Append | Insert | Edit | Delete | Cancel

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CICS TS 3.1 WUI Enhancements

- BATCHREP
  - Previously BATCHREP jobs could only be launched via the TSO interface. They can now be launched via the WUI or JCL.
- Dynamic selection lists
  - For certain fields (e.g. Target scope) allows the user to select a value from a list.
- Filter Confirmation
  - Presents filters for a view before fetching any data.
- Warning Count
  - Displays a message and view filters if total number of records retrieved for a view is predicted to be above a defined value.

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CICS TS 3.1 WUI Enhancements

- Expand / Collapse Filters
  - Users can display more data on the screen by collapsing the filters at the top of a view.
- Two Column Detail Views
  - Users can utilise screen space in a flexible way by displaying detail data in either one or two column son their detail views.
- User Favorites
  - Allows a user to save commonly used view so they can be access quickly.
- User Groups
  - User groups allow administrators to alter a WUI server's characteristics for different groups of users.

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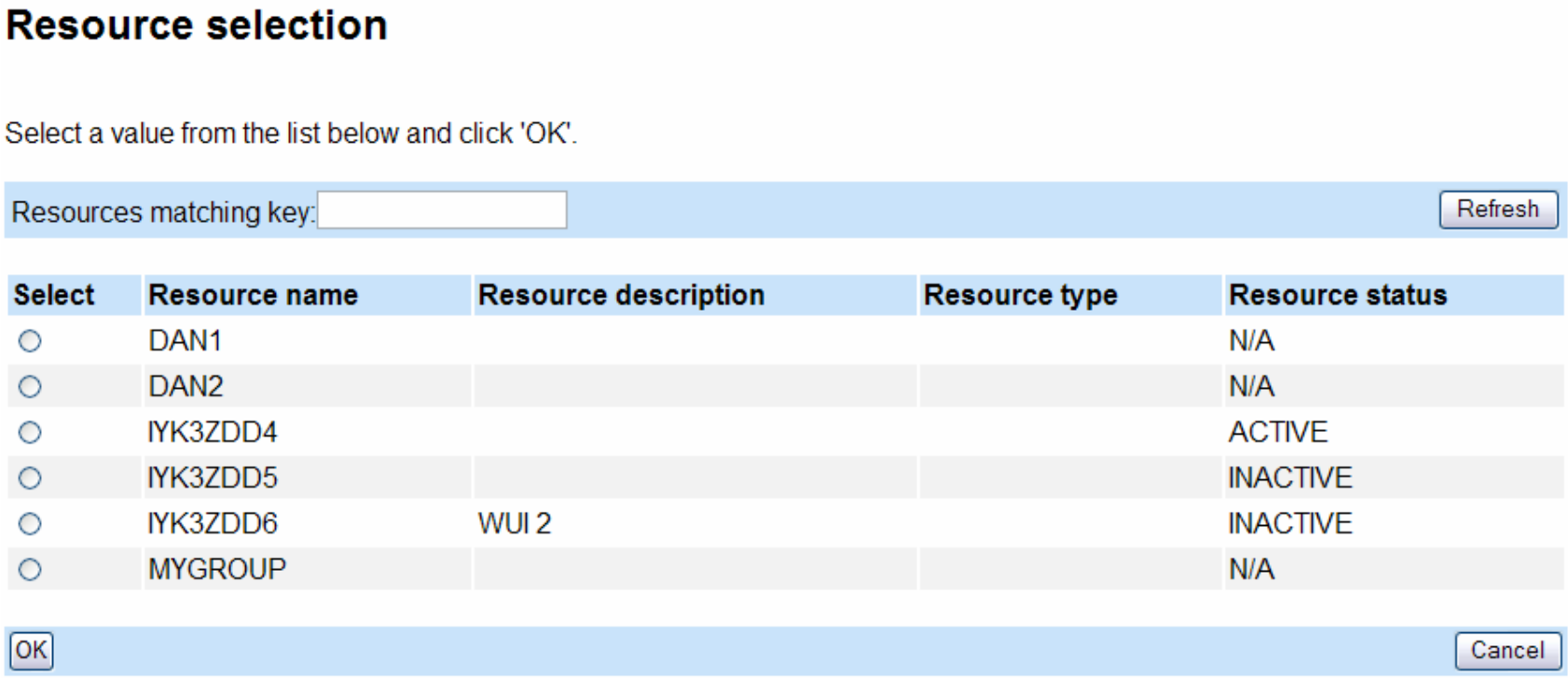
Dynamic selection lists

- WUI enabled to generate dynamic selection lists
  - Fields that are capable for dynamic selection lists are marked with an icon

    - clicking the icon will open a selection list screen
    - filters applicable to the list



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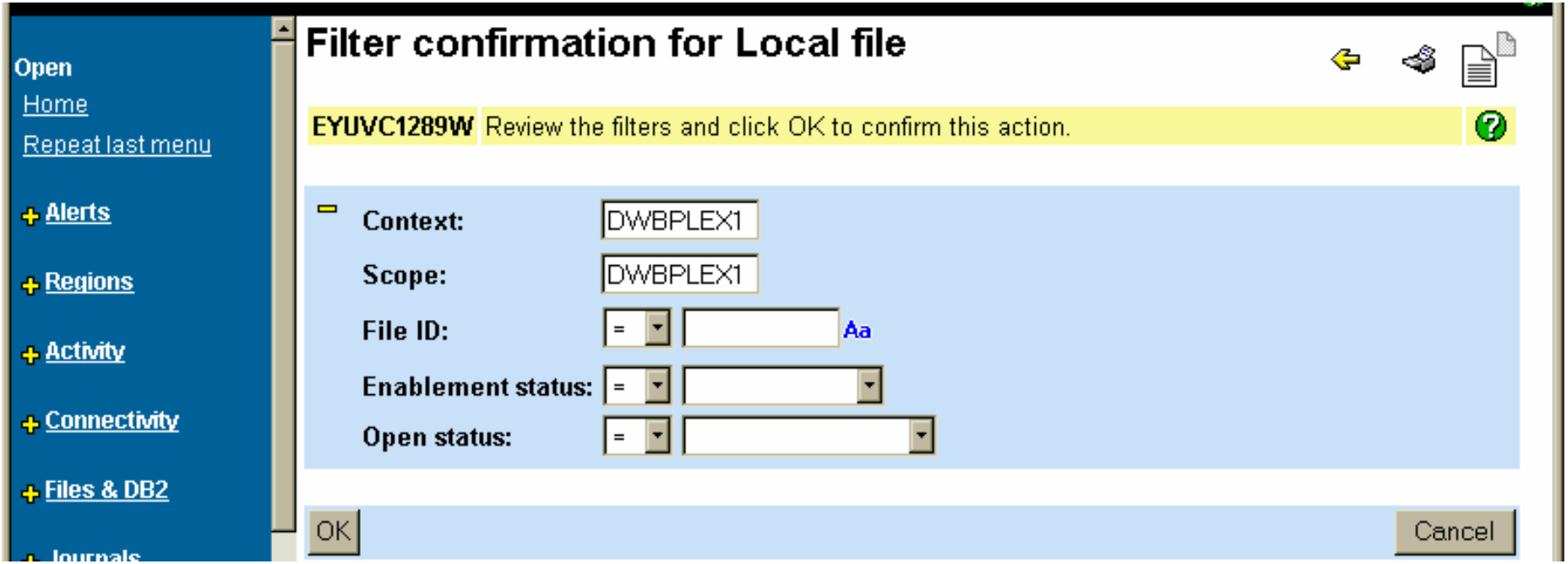
Filter Confirmation

- It is now possible for a user to enter filter values before fetching data.
- Filter confirmation display specified in hyperlink definition.



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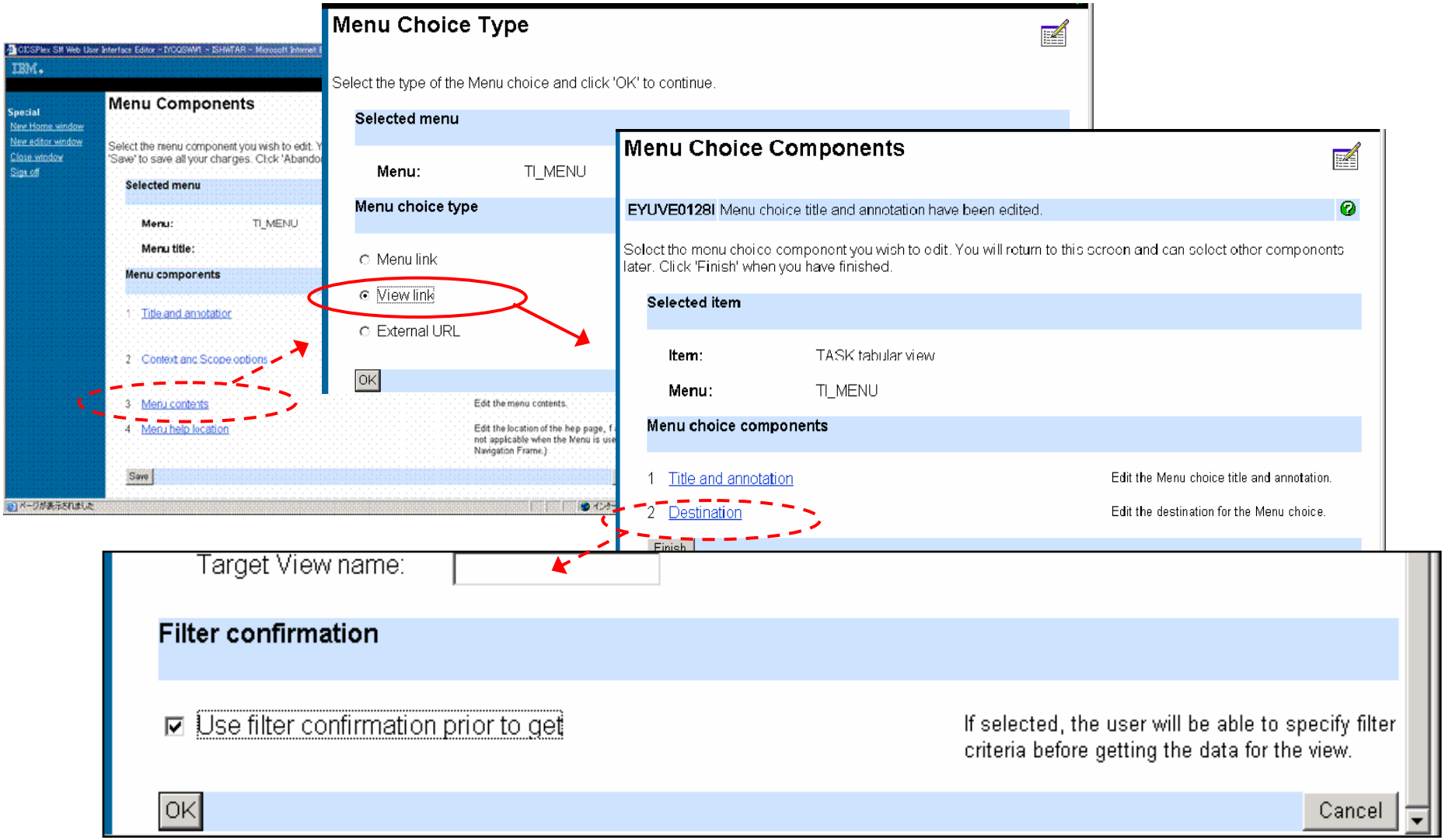
Setting a hyperlink to use Filter Confirmation



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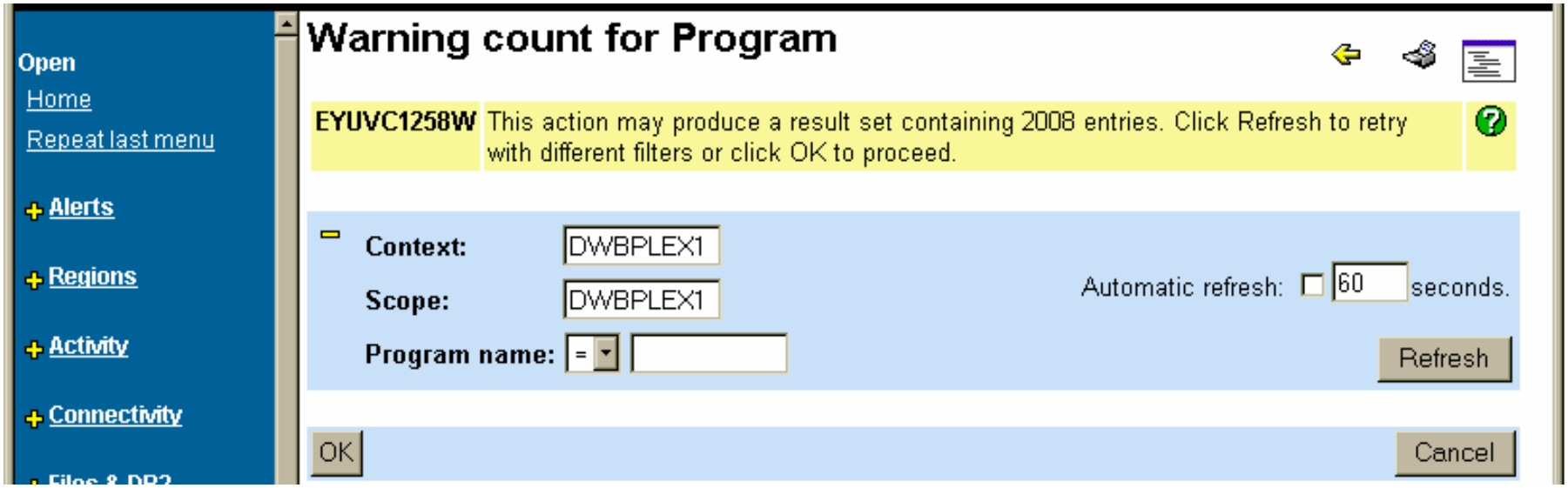
Result Set Warning Count

- Warning count message issued when predicted number of returned records is greater than a defined threshold.
- Can alter provided filter and retry the request, accept the request as it is, or cancel the request.
- Threshold defined in two places:
  - Default threshold for the server can be set using the DEFAULTWARNCNT WUI parameter in the server JCL.
  - Server default can be overridden for a group of users by setting attribute in a User Group Profile.



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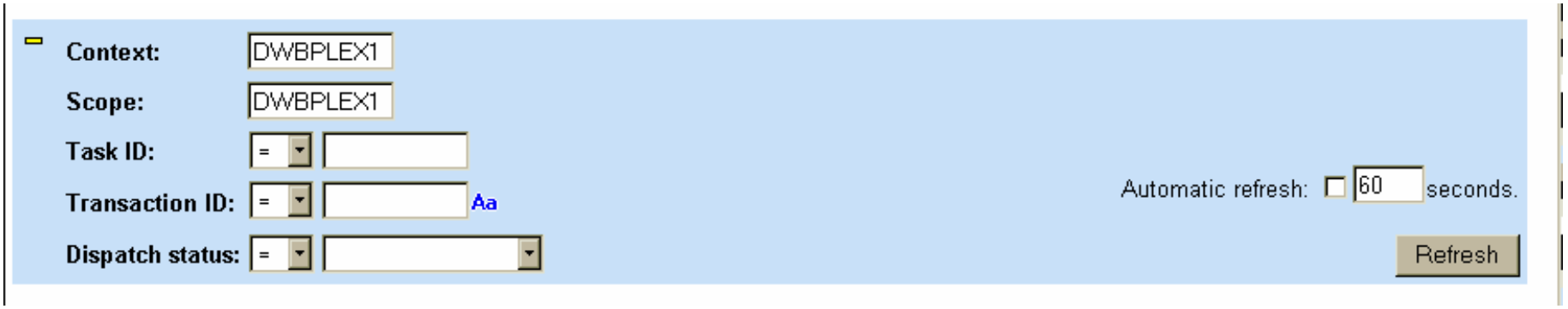
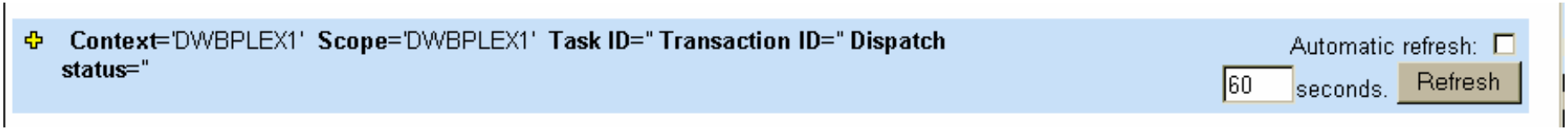
Expand / Collapse Filters

- Filters at the top of views can be collapsed to show more data on detail views.
  - Filters expanded



  - Filters collapsed



- Server can set filters to be displayed as expanded or collapsed by default.
  - Set using the FILTERSTYLE WUI parameter.

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Favorites support

- Users can get faster access to frequently use views by saving them as Favorites.
  - Tabular and Detail views can be saved.
  - View filter, summary and sort information also saved.
- Favorites appear as links in the Navigation frame.
- User's can organise their list of Favorites using a Favorites Editor.
- An Administrator can alter the list of Favorites for any user on the server.
- An Administrator can export and import user Favorites to allow migration between WUI servers.

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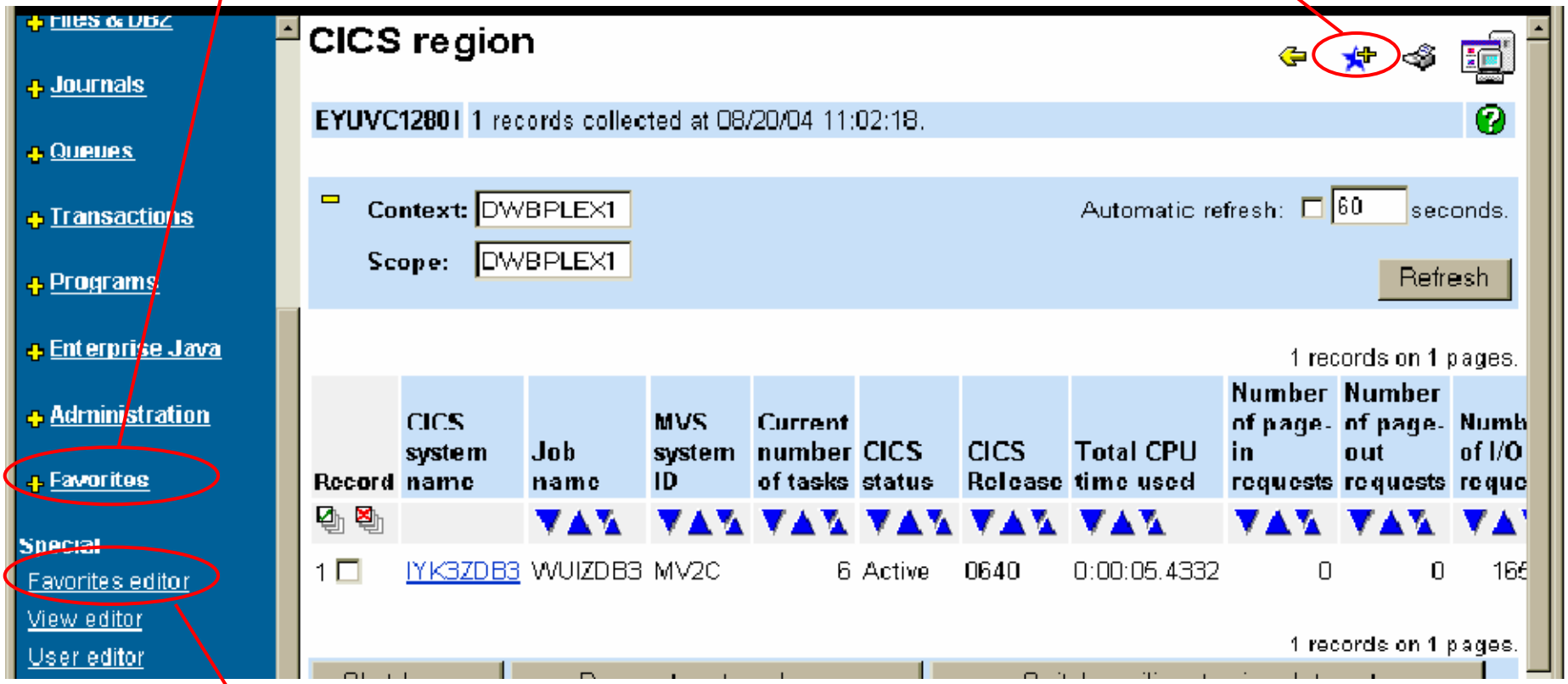
Favorites support

Favorites link

Add to favorites



Favorites Editor

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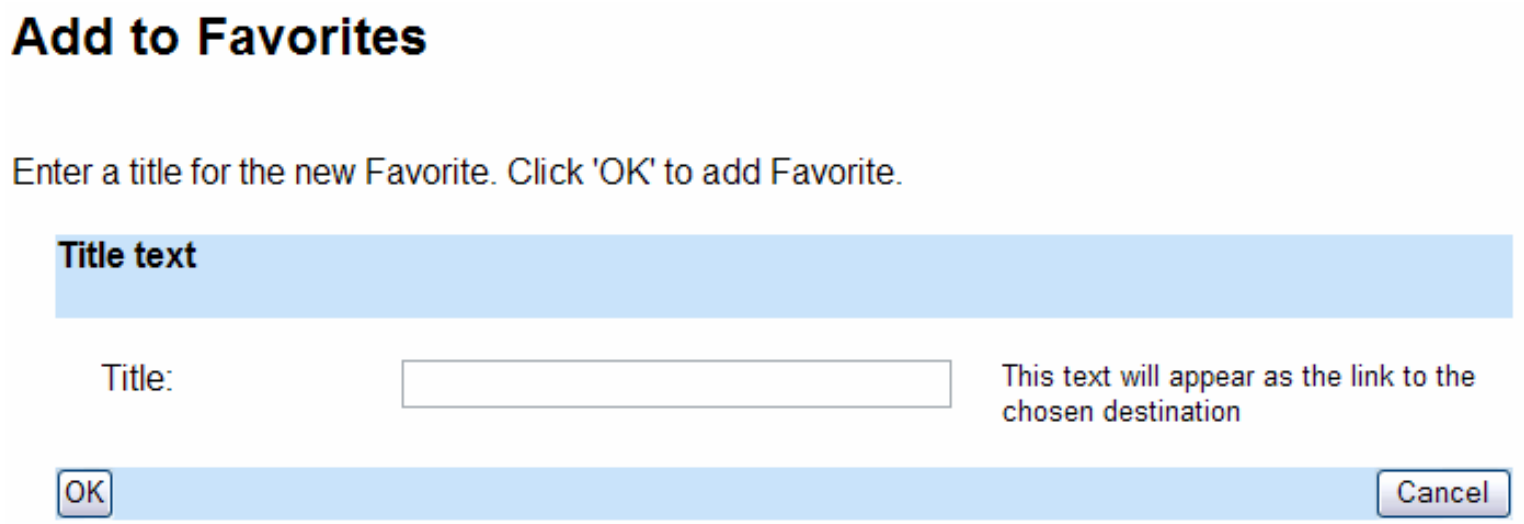
Adding a view to Favorites

- Click on the icon

- The following view is displayed:



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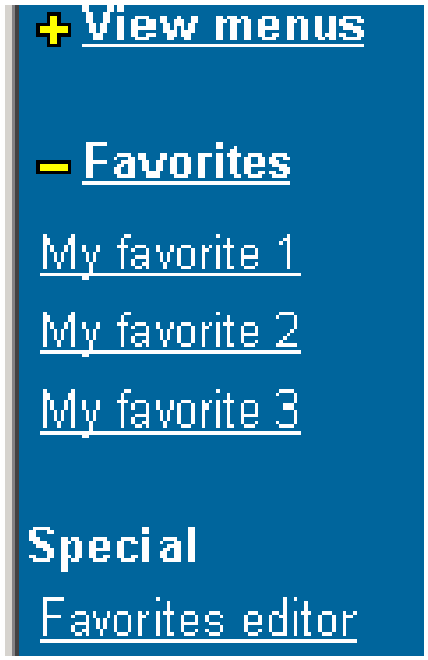
Adding a view to Favorites

- Upon refresh, Favorite is added to the Navigation frame:



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Favorites Editor

- Allows users to alter their own Favorites.
- Launched in separate browser window.
- Performs the following actions:
  - Move
    - Alter the position of a Favorite within the list.
  - Copy
    - Copy an existing Favorite.
  - Edit
    - Change Context, Scope, CMAS Context and Filter settings for a Favorite.
  - Delete
    - Remove a Favorite from the list.

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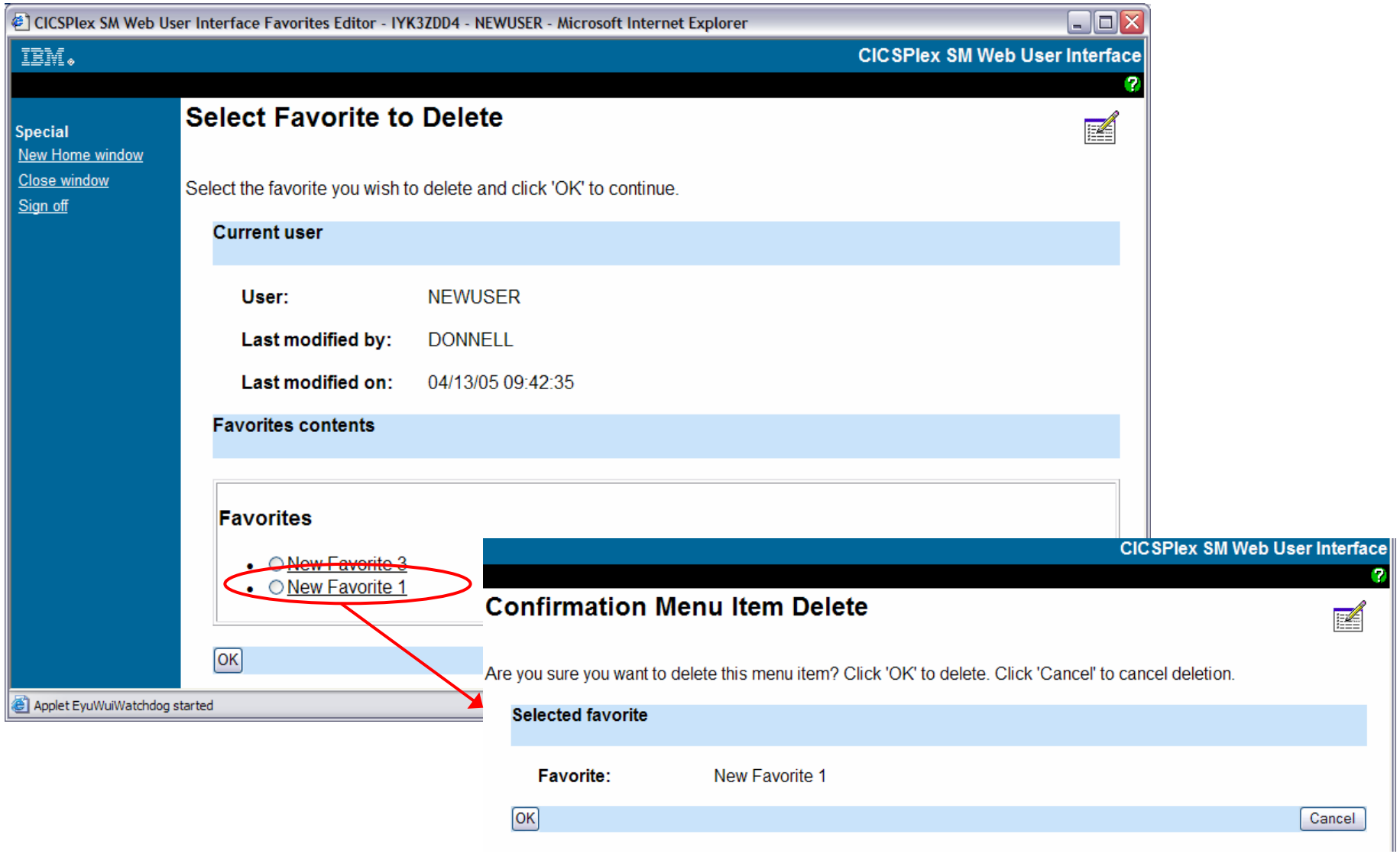
Favorites Editor example – Deleting a Favorite



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User Group Profiles

- Profiles may be set for groups of users.
  - e.g. Operators, Administrators, Developers.
- Attributes that can be set for a group are:
  - Result set warning count
  - Default main menu
  - Default navigation menu
  - Default Context
  - Default Scope
  - Default CMAS Context
  - Force Filter Confirmation
    - Via PK10918 (also new WUI parameter GLOBALPREFILTER)
- Not all attributes need to be overridden. Those that are not use the server default.
- Group that user belongs to is determined from their default ESM group, so security must be switched on to use profiles.
- Profiles can be imported and exported for migration between servers.

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The User Editor

- Allows an Administrator to edit User Group Profiles and other User's Favorites.
- Editing User Group Profiles includes:
  - Creating a new user group
  - Editing an existing user group
  - Delete user group
- Editing Users includes:
  - Create/Edit a User
    - Create a new Favorite
    - Edit an existing Favorite
    - Move a Favorite
    - Copy a Favorite
    - Delete a Favorite
  - Delete a User

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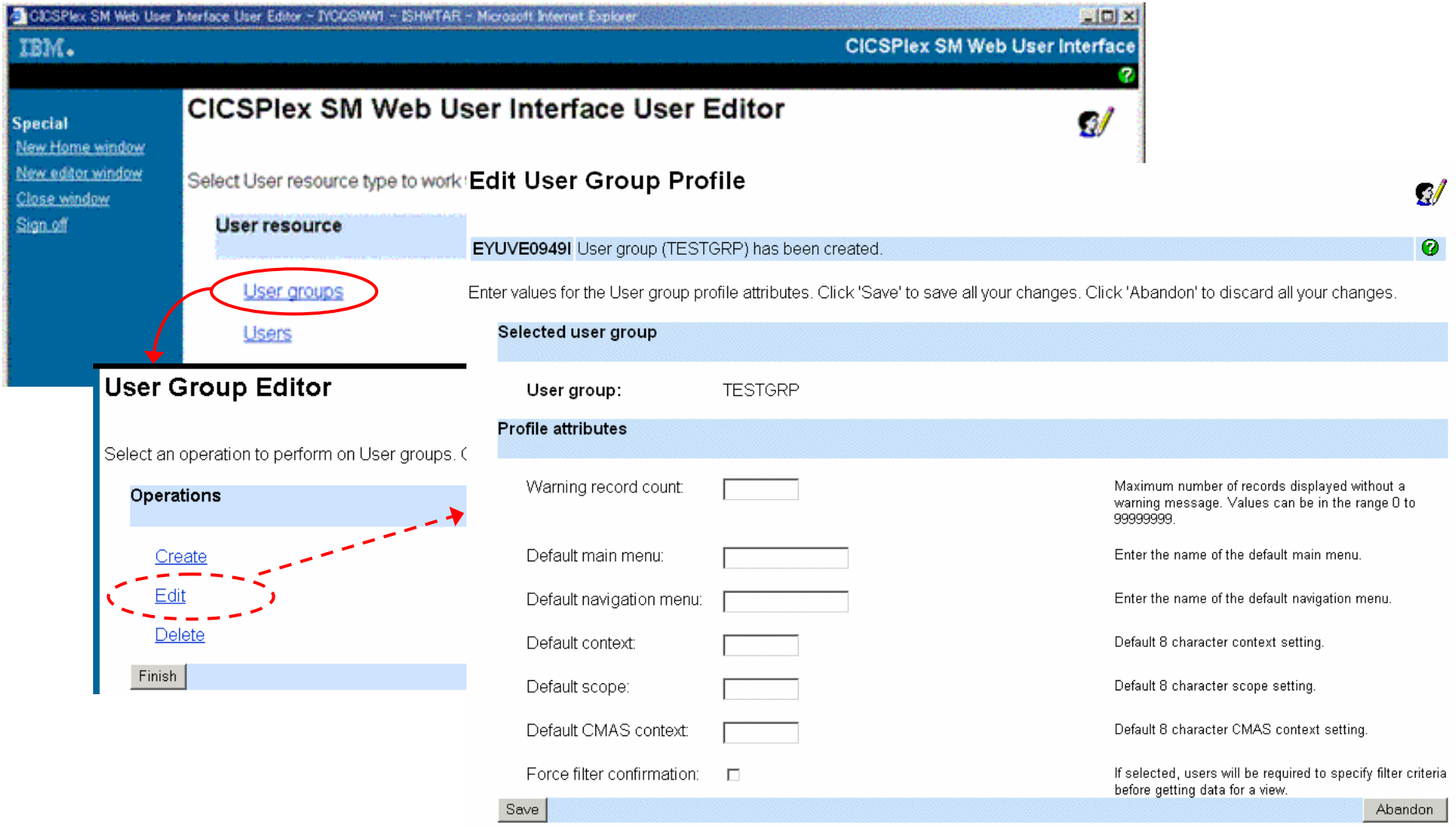
Edit a User Group Profile



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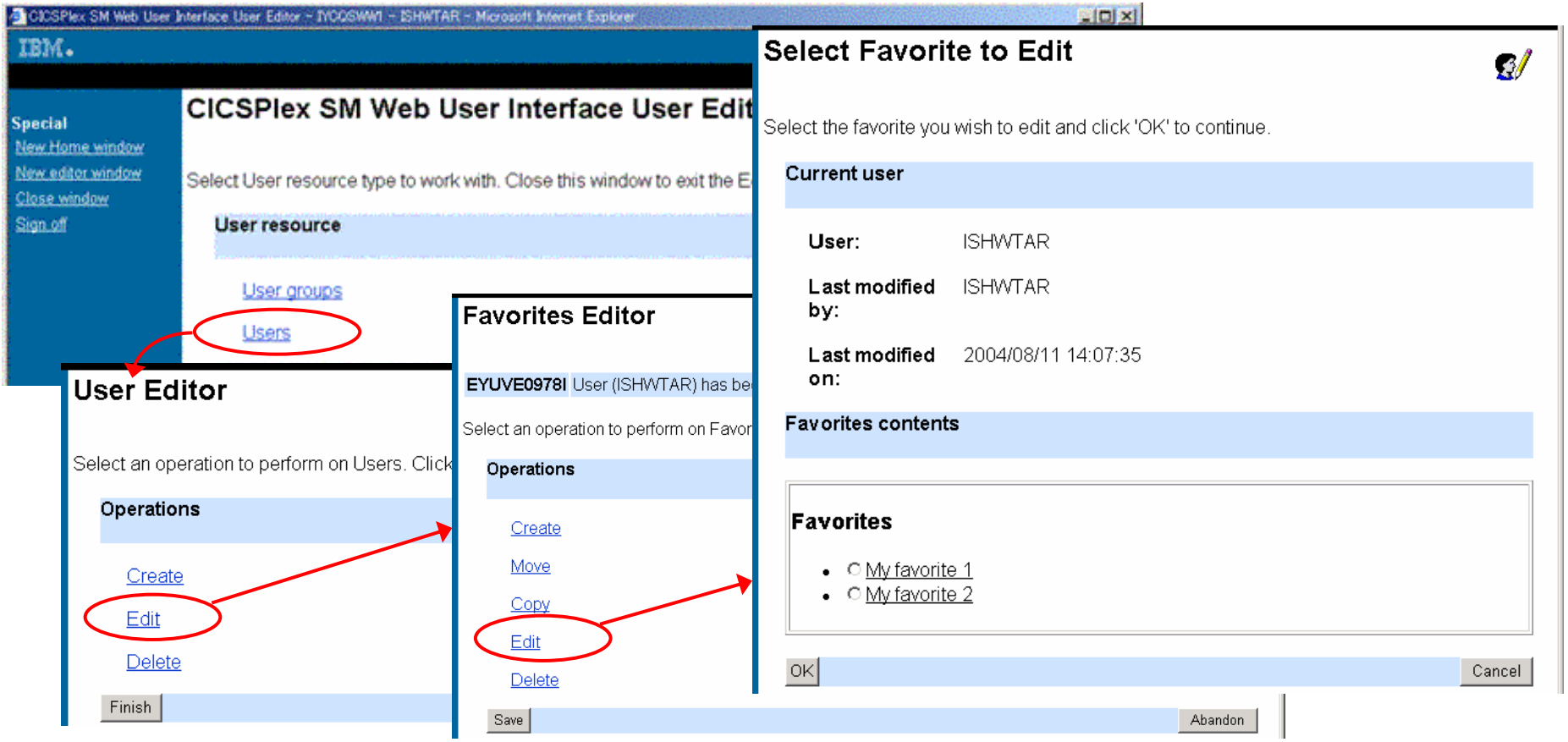
Edit a User



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Summary

- The WUI provides a familiar browser environment for users to access CPSM.
- Allows you to customise views to suit your enterprise.
- New features in CICS TS 3.1
  - Two column Detail view support
  - Dynamic selection lists
  - Filter confirmation
  - Result set warning counts
  - User favorites
  - User group profiles
  - Improved screen layout
    - Select all / Deselect all icons
    - Collapsible filters

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