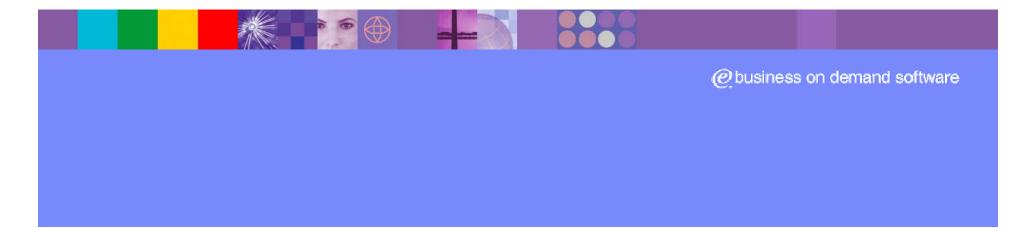


IBM Software Group

Enterprise Management

CICS TS V3 R1, CICSPlex System Manager – Technical Overview

WebSphere software





CICSPlex SM review

- Enterprise systems management for CICS on z/OS via
 - Web User Interface
 - Batch repository update
 - Application Programming Interface
- Single System Image & Single Point of Control
 - Resource definition
 - Operations
 - Monitoring
 - Workload Management
 - Threshold Analysis
 - Automation
- Tivoli Business System Manager Integration



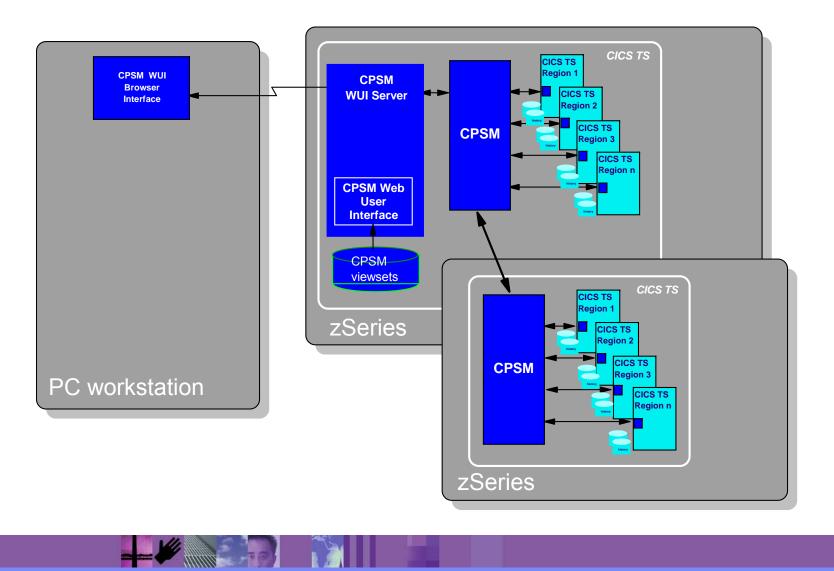
Single System Image – what does it mean?

- Resources may move from one day to another
- New regions may be created, others removed
- All of these changes drive
 - notifications to those concerned, e.g. operations
 - Changes to actions taken by staff
 - A common source of error
 - Disable transaction ABCD
 - Does so in CICSA, CICSB
 - But not CICSC where it was installed yesterday
- As location of resources change, topology keeps track of this automatically
- Actions taken via WUI or API are independent ot location
 - DISABLE TRANS(PAYR) SCOPE(PAYROLL)
- Information is all displayed together in one view e.g.
 - All tasks associated with unit of work across the CICSplex



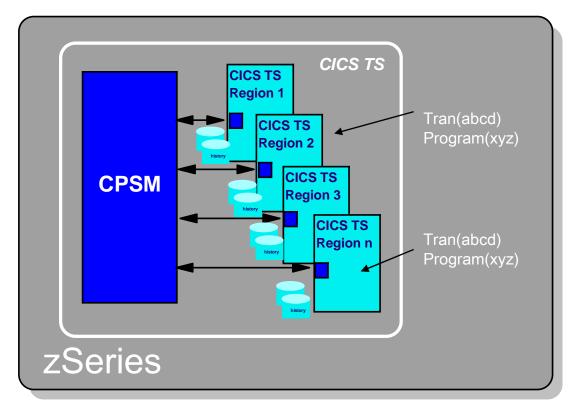
CICSPlex SM Architecture

Y,





Topology – Where are the resources?



CICS regions initialise and terminate

 CICS resources become available/unavailable

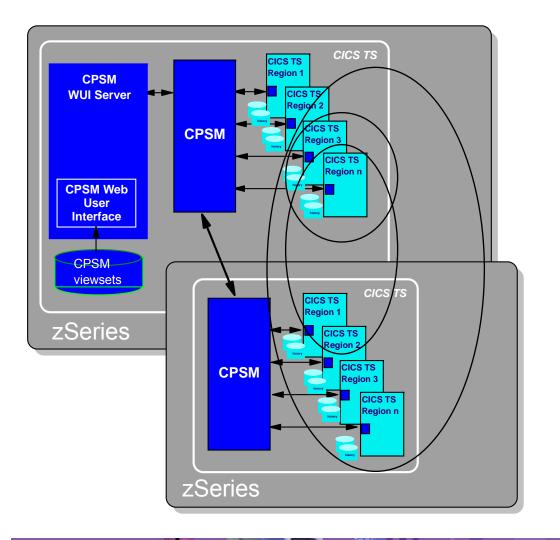
 Topology keeps track of all resources within the CICSplexes

 Used to make directed requests to CICS regions and their resources

 Provides the basis for Single System Image (SSI)



Identifying sets of systems



- CONTEXT the name of a collection of CICS regions
 - ▶ e.g. TEST, QAPLEX, PRODUCTION
 - A CICS region can only be in one context
- SCOPE the name of a set of CICS regions within that CONTEXT
 - e.g. PAYAORS, TORSET...
 - A CICS region can be in multiple scopes

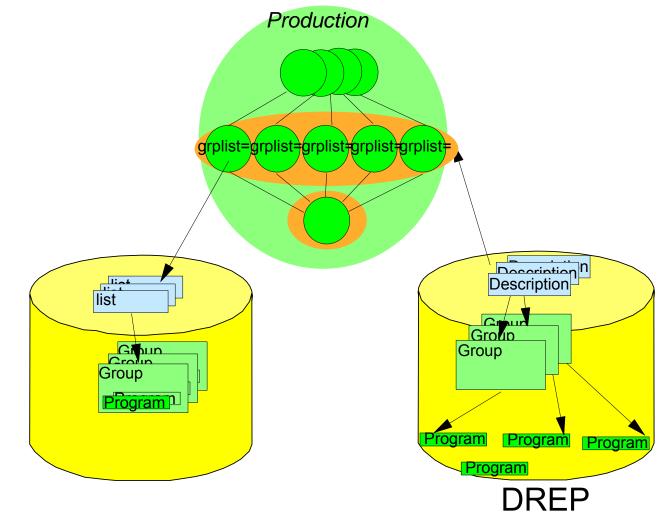


Business Application Services – Resource Definition

- The CICSPlex SM equivalent of CICS RDO
 - Basic BAS is very similar to RDO
 - Also introduces SYSLINK resource for CONNECTION/SESSIONs
 - Advanced BAS introduces one additional construct
 - Resource assignment
 - Definitions can also be assigned a logical name e.g. PAYROLL
 - Can be used as a runtime filter via operations
 - Install controlled at
 - CICS initialisation
 - CICS Runtime
 - INSTALL CONTEXT(QAPLEX) SCOPE(AORSET)



How basic BAS and RDO relate to each other





Why should I use it?

- RDO
 - Repository
 - Sysplex shared
 - •Discrete need copies

Data

- control full access
- volume baseline
- consistency CHECK cmd
- Access control
 - dataset RACF
 - records LOCK/UNLOCK
- Install span of control
 - Coldstart
 - region -> Sysplex
- Runtime
 - Single system
- API access
 - •No access to CSD data
 - EXEC CICS CREATE
- Integration into runtime
 - None
- EUI
- 3270 from within CICS

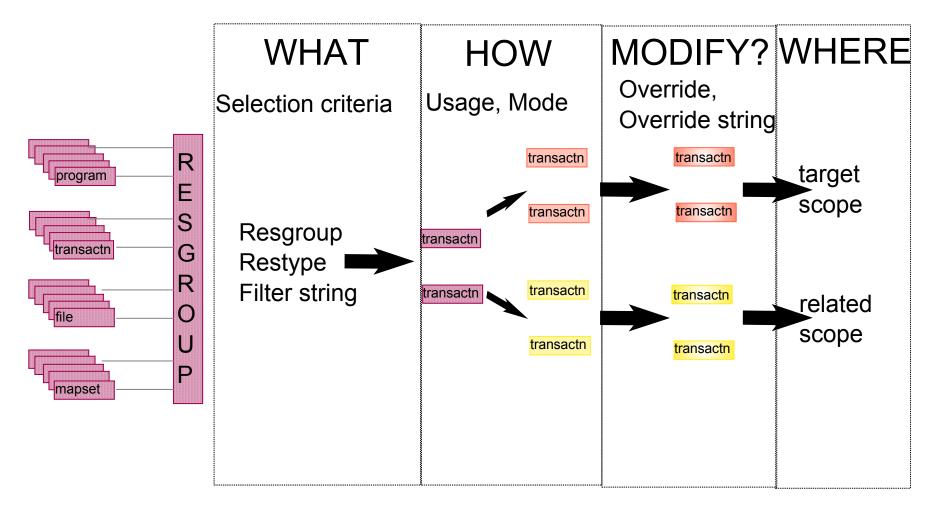
- BAS
 - Repository
 - •Globally shared
 - •No need to copy things around

Data

- control full access
- •volume less due to sharability
- consistency increased
- Access control
 - dataset RACF
 - records RACF
- Install span of control
 - Coldstart
 - Global
- Runtime
 - Global
- API Access
 - •Full access from CICS, batch, TSO, NetView
- Integration into runtime
 - •enables subset resource management
- EUI
- Web Browser via WUI



BAS – Advanced BAS – the Resource Assignment



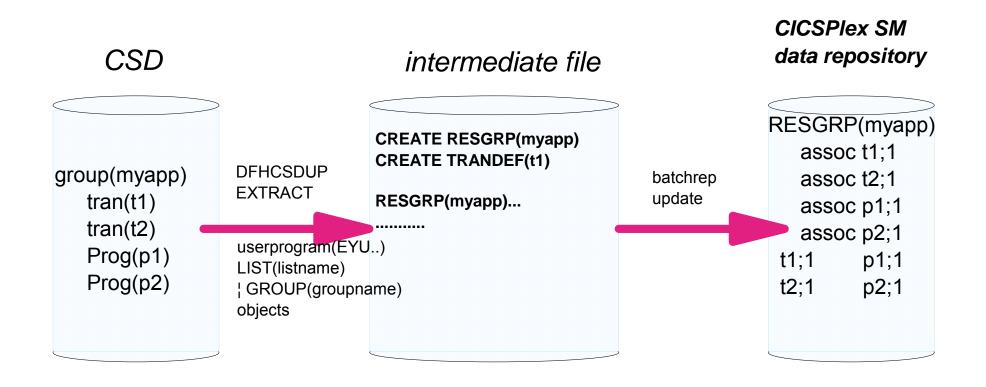


Why use resource assignments?

- Easier to see where resources are assigned and how
- Can share resources across multiple environments
- Easier to do global change
- Increased consistency no mismatches
- Movement from test; QA; production
- No need to edit resource definitions to adapt to topology change
- New application version becomes Resource Description, Resource assignments and changed definitions

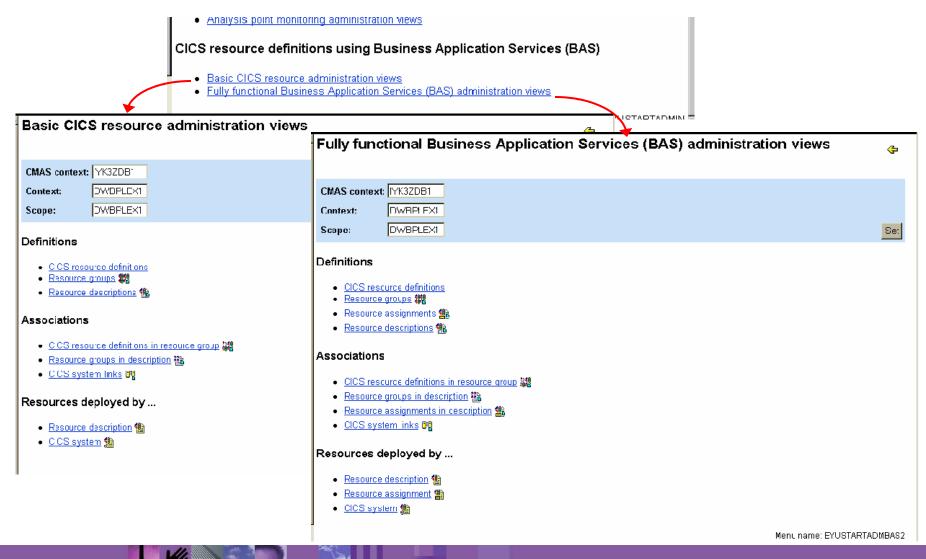


Definition migration





BAS Administration views





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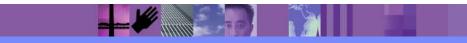


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Batchrep via JCL stream

sample JCL & output

//BATCHREP EXEC PGM=EYU9XDBC,REGION=0M //STEPLIB DD DISP=SHR,DSN=CICSTS31.CPSM.SEYULOAD //SYSPRINT DD SYSOUT=* //SYSIN DD * CMASNAME(IYK4Z0E1) CHECK INPUTDSN(GALLEN.WORK.JCL) INPUTMEMBER(BCH5955) PRINTNODE(LOCAL) OUTPUTUSER(GALLEN) /*

CICSPlex/SM Batched Repository Update Utility

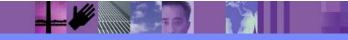
Version 310

Parameters specified:

CMASNAME(IYK4Z0E1) CHECK INPUTDSN(GALLEN.WORK.JCL) INPUTMEMBER(BCH5955) PRINTNODE(LOCAL) OUTPUTUSER(GALLEN)

EYUXD0908I A batched repository update has been submitted to run in CMAS IYK4Z0E1.

EYUXD0909I CICSPlex SM Batched Repository Update Utility is terminating.





Operations & Monitoring

- Operations
 - More data than CEMT
 - Wider scope than CEMT
 - Direct access to CICS regions
- Monitoring
 - Cached data in dataspace
 - Accumulated averages etc
 - Collected corresponding to user specified criteria
 - Includes CICS historical task data





	CICSPlex SM Web User Interface
	?
General views CICS operations views CICS regions Active tasks	÷
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Dynamic Workload Management

- Dynamically balances workload from multiple routing regions to multiple targets where workload is processed giving high availability
- Balanced according to
 - Queue algorithm
 - MVS Goal algorithm
- Supports
 - Workload separation
 - Affinity management

- Applies to
 - Dynamic transaction routing
 - Start <termid) requests</p>
 - Dynamic DPL
 - EJB requests
 - > 3270 bridge
 - CICS BTS activities and processes



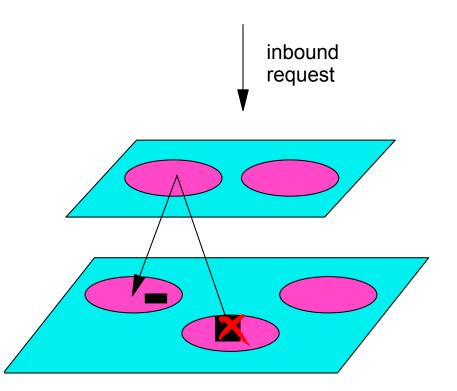
Dynamic Transaction routing

 $trangrp(x) = \{tranid\}$ (userid,luname,trangrp,processtype)->SystemGroup Associated with SystemGroup' tranid(abcd) dynamic(yes) tranid(abcd) dynamic(no)



Affinities

- Inbound request routed
- Creates data in region
- Next route is different region
- Fails (hopefully!)







CICSPlex SM Web User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer	
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<u>– General views</u> 💁 Workload manager administration views	¢
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- <u>View menus</u>	
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CICSPlex SM operations	
Administration views	
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Detecting potential problems – Real Time Analysis

- Provides the ability to detect states within CICSplex
- Provides the ability to take actions
 - Internally perform a SET action when the predicate is true
 - Externally send a console message/SNA Generic Alert/ CPSM EVENT followed by script execution
- Three flavours provided
 - System Availability Monitoring (SAM)
 - MAS Resource Monitoring (MRM)
 - Analysis Point Monitoring (APM)



RTA - System Availability Monitoring

- Out of the Box function
 - Detects common states such as SOS, MAXTASK, Dumping
- If Time period specified for CICS region
 - Detects CICS is down when it should be up
- Also detects STALL state
 - Matrix of task number versus SUSPENDTYPE CPUTIME from EXEC CICS INQUIRE TASK
 - If task is in SUSPENDTYPE for longer than threshold value then alert is raised





RTA – MAS Resource monitoring

- Allows user to specify thresholds on any attribute of any object instance
- Predicates may be combined via 'and' 'or' 'not' logic
- Simple thresholds
 - If tran(abcd) status ne enabled then
- Complex thresholds

.

- Select tran(abcd)
- When (0< response time<5 seconds) then notification A</p>
- When (5< response time<10 seconds) then notification B</p>
- Can also cater for transients on metric being tested
- Provides aggregation mechanisms such as AVG,HWM,LWM...
- Applies to each region within the specified scope



RTA – Analysis Point Monitoring (APM)

- Thresholds specified similarly to MRM
- Applies to sets of systems within the SCOPE





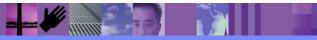
Fixing problems

- Internal automation via RTA
 - Via modification string expressions (SET commands)
 - Attribute1=value1,attribute2=value2......
- External Automation via RTA
 - Via Automation products such as NetView
 - Message table entries for CPSM generated console messages
 - Capture of SNA Generic alerts
 - Execution of CPSM REXX API script
 - Via a CPSM API program
 - Utilising LISTEN verb
 - Execution of CPSM API commands





CICSPlex SM Web User Interface - IYEMSW1W	/ - PJ - Microsoft Internet Explorer	
IBM.		CICSPlex SM Web User Interface
⊘← ≣← ←		?
🗕 <u>General views</u> 💁 Real Time Analysis	(RTA) MAS resource monitoring administration views	¢
CICS regions		<u>.</u>
Active tasks		
ISC and MRO CMAS context: IYEMSV	VIY	
Context: APOLLO		
Local files Scope: APOLLO		Set
Remote files		
Local or dynamic transactions Main definitions		
Remote transactions . Analysis specificati	ions %	
Real Time Analysis Analysis groups (RTA) outstanding Analysis definitions events Analysis definitions		
Evaluation definitio View menus User status probe		
CICS operations views • Action definitions	<u> </u>	
Monitoring views . <u>Time period definit</u>	ions 🚱	
Real Time Analysis (RTA) views Active workload views		
	aniated with analysis apositizations =0	
views	ociated with analysis specifications 🛃 os associated with analysis specifications 🞇	
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- Favorites - Analysis definitions		
cedaonly Status definitions in	֥	
Special		Menu name: EYUSTARTADMMRM
Favorites editor		
View editor		
<u>User editor</u>		
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🙆 Done		🔮 Internet 🛒



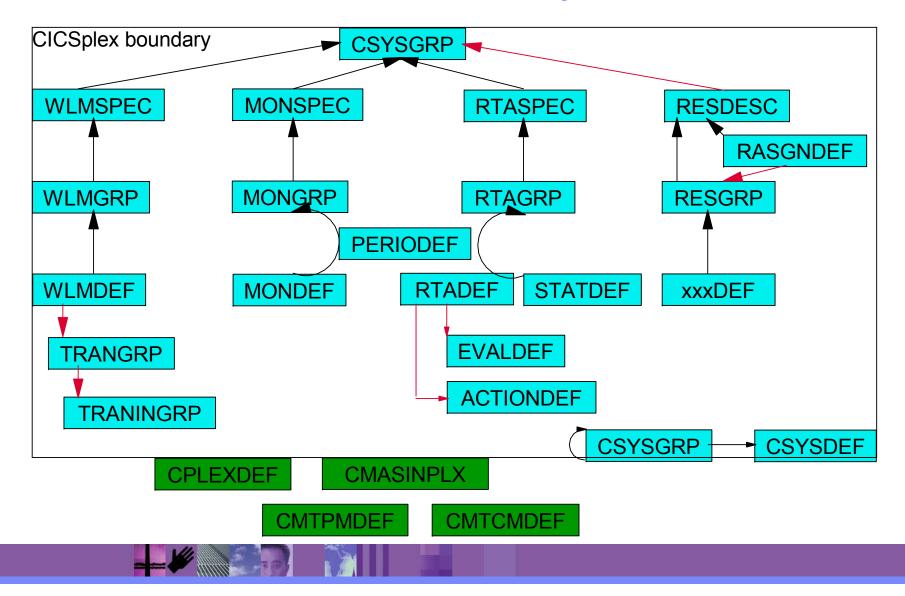


Writing automation scripts – the CPSM APIs

- Many tasks are 'one offs'
- Others need triggering via automation
 - Pre market open checks
- Others involve other subsystems
 - Checking both CICS and z/OS environments
- Other involve complex operational procedures
- CPSM provides access to all of its function via
 - EXEC CPSM verb for compiled programs (C, PLI, ASM)
 - REXX CPSM API programs
 - Synchronous and Asynchronous access
 - EVENT pub/sub process



CICSPlex SM Administrational objects





Web User Interface

- Familiar Browser environment
 - Introduced for operations in CICS TS 1.3
 - Now fully capable
- Menu, Tabular/Detail view structure
- Hyperlinks between
 - levels of detail
 - e.g. tasks for given unit of work in CICSplex to task detail
 - resource relationships
 - e.g. navigate to program referenced by transaction
- NLS enabled
- User profiles
- Favourites support
- Capability to build your own menus and views via view editor
- Capability to manage user profiles and favourites via user and favourites editor
- Control transaction COVC





WUI runtime





	b User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer	
IBM 。		CICSPlex SM Web User Interfac
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epearlast menu	EYUVC1314I You currently do not have any favorites.	0
<u>General views</u>		
	CMAS context: IYEMSW1Y	
View menus		
pecial	Context: APOLLO	
efresh	Scope: APOLLO	Set
<u>/iew editor</u>		
lser editor	Welcome to the CICSPlex SM Web User Interface. Please select an item from the menu below.	
lew window		
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	Active tasks 🙀	
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	• Local files pp	
	• <u>Remote files</u>	
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	· <u>Remote transactions</u> <u>e</u> [#]	
	 Real Time Analysis (RTA) outstanding events 	
	View menus	
	CICC exercities views	
	CICS operations views Work with the managed CICS resources.	
	Monitoring views	
	View the results of CICS resources monitored by CICSPlex SM. Real Time Analysis (RTA) views	
	View the CICS resource status alerts.	
	Active workload views	
	Work with the CICS workloads being managed by CICSPIex SM.	
	<u>CICSPIex SM operations views</u>	
		🥑 Internet



	ser Interface - IYEMSW1W - PJ - Microsoft Internet Explorer	
IBM.		CICSPlex SM Web User Interfac
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Dpen <u>Home</u>	Main menu	¢
<u>Repeat last menu</u>	CMAS context: IYEMSW1Y	
<u>General views</u>	Context: APOLLO	
CICS regions	Scope: APOLLO	
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<u>SC and MRO</u> connections Terminals	Welcome to the CICSPlex SM Web User Interface. Please select an item from the menu below.	
<u>.ocal files</u>	General views	
<u>Remote files</u>		
<u>Local or dγnamic</u> transactions	<u>CICS regions</u>	
Remote transactions	ISC and MRO connections	
<u>Real Time Analysis</u> (RTA) outstanding <u>events</u>	 Terminals	
<mark>4</mark> <u>View menus</u>	 Local or dynamic transactions ₅[™] <u>Remote transactions</u> ₆[™] 	
<u>– Favorites</u>	<u>Real Time Analysis (RTA) outstanding events</u>	
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pecial	View menus	
- Favorites editor	<u>CICS operations views</u>	
√iew editor	Work with the managed CICS resources.	
<u>User editor</u>	 <u>Monitoring views</u> View the results of CICS resources monitored by CICSPlex SM. 	
<u>New window</u>	Real Time Analysis (RTA) views	
<u>Close window</u>	View the CICS resource status alerts. Active workload views	
<u>Sign off</u>	Work with the CICS workloads being managed by CICSPlex SM.	
	<u>CICSPlex SM operations views</u> View some of the CICSPlex SM configuration.	
	Administration views	
	Work with CICSPlex SM and CICS resource definitions.	
<u>)</u>		Internet



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		region								Ģ	★ ∢	\$ 🚮
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erminals										44	5 records o	n 1 nages
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<u>vents</u>	3	IYEMST03	IYEMST03	MV51		3 ACTIVE	0640	0:00:04.5808		- 0	0	10629
View menus	4	IYEMST05	IYEMST05	MV51		4 ACTIVE	0640	0:00:04.2426		0	0	9335
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ctive workload views	7	IYEMST11	IYEMST11	MV51		3 ACTIVE	0640	0:00:03.3687		0	0	8686
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ctive tasks	Q) Q]	▼▲∿	VAX	V A V	▼▲∿	V A V	V A V	V A V	V A V	*	V.
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mote files	4 🔲	IYEMST05	IYEMST05	MV51	ź	4 ACTIVE	0640	0:00:04.2426		0	0	9335
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a <u>l Time Analγsis</u> TA) outstanding	7 🗖	IYEMST11	IYEMST11	MV51	3	3 ACTIVE	0640	0:00:03.3687		0	0	8686
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<u>View menus</u>	9 🗖	IYEMST13	IYEMST13	MV51	2	ACTIVE	0640	0:00:04.1407		0	0	10143
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e <u>vv editor</u> :er editor	Sn	Reset the inte		system dum ock		ild security		acing data set) alata shinna	d terminal defini	tions	-
<u>w window</u>		Request stati				ind secondy	promes		versie snippe	a terminar aeimi	dona	_
ose window			5	g								
<u>in off</u>	~							Resource name	e: CICSRGN, Vie	w name: EYUSTAR	TCICSRGN.	TABULA
										🥑 I	nternet	



🕙 CICSPlex SM Web Use	r Interface - IYEMSW1W - PJ - Microsoft	Internet Explorer	
IBM.			CICSPlex SM Web User Interface
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Home	CICS region		
Repeat last menu	-		
	EYUVC1280I 15 records collected at 2004/10	0/06 15:32:37.	0
<u>— General views</u>			
CICS regions			Refresh
<u>Active tasks</u>			
ISC and MRO	CICS system name	IYEMST01	
<u>connections</u> <u>Terminals</u>	siss system nume	nemoto)	
Local files	CICS Release	0640	
Remote files	Job name	IYEMST01	
	VTAM application ID	IYEMST01	
	MVS system ID	MV51	
Remote transactions	CICS system ID	MT01	
Real Time Analysis	Activity keypoint (AKP) frequency	4000	
(<u>RTA) outstanding</u> events	Number of MRO requests to be batched		
🗕 <u>View menus</u> 📑	Priority aging value	500	
	Runaway time interval	5000	
<u>Monitoring views</u> Real Time Analysis	Terminal scan delay time	100	
(RTA) views	Exit wait time	1000	
	Number of load requests	1	
CICSPlex SM operations views	Total loading time	0:00:00.0314	
Administration views	Number of waiting loader requests	0	
	Number of tasks waiting for load requests	0	
opeeral	Peak number of tasks waiting for load requests	0	
Reiresn	Number of times maximum suspended		
View editor	tasks reached	0	
<u>User editor</u>	Total load waiting time	0:00:00.0000	
	Default remote system	Not applicable	
Close window	MVS system name	MV51	
Sign off			✓
🕘 Done			🔮 Internet



CICSPlex SM Web Us	er Interface - IYEMSW1W - PJ - Microsoft	Internet Explorer
IBM.		CICSPlex SM Web User Interface
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Home Repeat last menu	Separate conversational task performance records	
<u>rtepear last mena</u>	Shutdown transaction	CESD
<u> </u>	Web domain garbage collection interval	
<u>CICS regions</u> <u>Active tasks</u>	Web domain terminal timeout interval	0
ISC and MRO connections Terminals	Debugging profiles status	
Local files	Good morning message	CICS/TS 3.10 LMAS on WINt Aa
<u>Remote files</u> Local or dynamic	Good morning transaction ID	CSGM
transactions Remote transactions	Monitoring, dump and trace details	
Real Time Analysis	Task details	
(RTA) outstanding events	Autoinstall details	
– <u>View menus</u>	Active tasks	
CICS operations views	Global temporary storage attributes	
Monitoring views	<u>Global transient data queue attributes</u> 먣	
<u>Real Time Analysis</u> (<u>RTA) views</u>	Dynamic storage areas 🍒	
Active workload views	Transaction classes 👳	
CICSPlex SM operations	Global user exits	
<u>views</u> Administration views	Task related user exits	
Special <u>Refresh</u>		
<u>View editor</u>	Apply changes Shutdown	Request system dump Switch auxiliary tracing data set
<u>User editor</u>	Reset the internal CICS clock	Rebuild security profiles Delete shipped terminal definitions
<u>New window</u>	Request statistics processing	
Close window		
Sign off		Resource name: CICSRGN. View name: EYUSTARTCICSRGN.DETAILED 💌
ど Done		🔮 Internet 🧾



				CICSPIe	ex SM Web User Interfa
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l pen Tome	Dynamic Storage Areas (DSA)				e 4 🧱
<u>Repeat last menu</u>	CICS system name DEWCB8A0				
<u>Alerts</u>					
Dogiono	Short on storage status Notsos				
<u>Regions</u> ICS regions					
ICS dispatcher	Current DSA limit				
ICS storage	Total storage currently allocated to DSAs 1048576				
oader activity	Peak amount of storage allocated to DSAs 1048576				
inqueue pools					
<u> Global user exits</u> Task related user	Extended Dynamic Storage Areas (EDSA)				
exits					
Activity					
Activity	Dynan	nic Storage Areas			
<u>Connectivity</u>		CDSA	<u>UDSA</u>	SDSA	RDSA
<u>Files & DB2</u>	DSA Size	524288	0	262144	262144
<u>- 1103 00 002</u>	Peak DSA Size Current Free Storage	524288 131072	0	262144 253952	262144 69632
Logging	Current Free Storage	151072	0	200902	09032
Queues	Times Short-on-Storage	0	0	0	0
<u>Nucues</u>	Times no storage returned	0	0	0	0
<u>Transactions</u>				-	
	Overset Overse and a (dama in an discul)	<u>39</u>	<u>19</u>	<u>7</u>	<u>4</u>
Programs	Current Subpools (domain and task)				
<u>Programs</u>	Current Subpools (domain and task)	<u></u>	_		
	Getmain Request	3245	0	12	0
<u>Enterprise Java</u>				12 6	0
, <u>Enterprise Java</u>	Getmain Request	3245	0		
<u>Enterprise Java</u> <u>Models</u>	Getmain Request	3245	0		
Enterprise Java Models Miscellaneous	Getmain Request	3245	0		
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, <u>Enterprise Java</u> , <u>Models</u> , <u>Miscellaneous</u> pecial /iew editor lew window	Getmain Request Freemain Request	3245 3245	0	6	0
, <u>Programs</u> , <u>Enterprise Java</u> , <u>Models</u> , <u>Miscellaneous</u> ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Getmain Request Freemain Request	3245 3245	0	6	0
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en <u>me</u>	Terminal FYIIVC12801 2 records collected a	rt 08/20/04 11·10·28		\$\overline\$
<u>peat last menu</u>				•
<u>Alerts</u>	CMAS context: MK3ZDB1]		
egions	Context: DWBPLEX1 Scope: DWBPLEX1			Refresh
<u>ctivity</u>				
onnectivity	CICS system name	IYK3ZDB3	Terminal ID	CBRF
	Access method	Vtam	Acquire status	Notapplic
les & DB2	Altemate page height	0	Alternate page width	0
<u>ournals</u>	Altemate printer		Hardware COPY feature for alternate printer	Notapplic
<u>ueues</u>	Alternate screen height	0	Alternate screen width	0
ueues	Alternate-map-set suffix	אסט	APL keyboard feature	Noaplkybd
ransactions	APL text feature	Noapltext	ASCII data stream type	Notapplic
rograms	Automatic transaction initiation (ATI) status	Ati	Audible alarm feature	Audalarm
nterprise Java	Session binding status	Notapplic	Background transparency feature	Backtrans
	Extended color feature	Color	Console ID	
dministration	Copy feature in control unit	Nocopy	Correlation ID	
	Session creation status	Notapplic	Device data stream type	Ds3270
<u>avorites</u>	Default page height	24	Default page width	80
	Default screen height	24	Default screen width	80
cial aritae editor	Device type	T3277r	Device busy status	Not applicable
orites editor	Disconnect Requests status	Discreq	Dual-case keyboard status	Nodualcase
<u>v editor</u>	Exit tracing status	Notapplic	Extended data stream support	Extendedds
<u>er editor</u> v window	Function management header	Nofmhparm	Forms feed feature	Noformfeed



l

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





Filter confirmation

- WUI view editor allows filter confirmation
 - specify a filter confirmation screen to be displayed before data retrieval

Open	Filter confirmation for Local file	¢	s 🗗
<u>Home</u> <u>Repeat last menu</u>	EYUVC1289W Review the filters and click OK to confirm this action.		0
<mark>⊕ <u>Alerts</u></mark>	Context: DWBPLEX1		
<mark>+</mark> <u>Regions</u>	Scope: DWBPLEX1		
<mark>⊕ <u>Activity</u></mark>	File ID: = Y Aa Enablement status: = Y		
<u> ← Connectivity</u>	Open status:		
♣ Files & DB2 ♣ lournals	ок		Cancel



Result set warning count

- Issue a warning if the request returns more data than expected
 - provide the opportunity to alter filters or cancel the request before execution
 - Maximum size of a result set specified in ...
 - user group profile, if WUI is running with security
 - set by an administrator
 - DEFAULTWARNCNT parameter in WUIPARM
 - default is 0, meaning no warning issued
- Warning count screen

Open Homo	Warning count for Program	\$ <u></u>
<u>Home</u> <u>Repeat last menu</u>	EYUVC1258W This action may produce a result set containing 2008 entries. Click Refresh to retry with different filters or click OK to proceed.	Ø
<mark>⊕ <u>Alerts</u></mark>	Context: DWBPLEX1	
<mark>+</mark> <u>Regions</u>		seconds.
<mark>⊕ <u>Activity</u></mark>	Program name: 🖃	Refresh
<u> ↓ Connectivity</u>	οκΙ	Cancel





Favorites support

- Faster access to frequently used views
 - New "Favorites" in Navigation frame
 - "Add to favorites" icon on tabular and detail views
 - Added to new "USER" object in WUI repository
 - Favorites editor to create/update/delete/rename favorites

•	<u>FIIES & DBZ</u>		S regior	ì						4	*	
÷	<u>Journais</u>											
	_	EYUV	'C12801 1 red	ords collec	ted at 08.	/20/04 11:	02:18.					0
↔	<u>Queues</u>								avorites 🖊			
¢	<u>Transactions</u>	- (Context: DV	/BPLEX1					Automatic re	fresh: 🗖	60 sec	onds.
÷	<u>Programs</u>	S	cope: DW	/BPLEX1							Refr	esh
÷	<u>Enterprise Java</u>									1 r ec	ords on 1 (cages.
	<u>Administration</u>		CLCE		MVS	Current				Number		Muunala
			E Eavo		system	number	cics	CICS	Total CPU	of page- in	ur page- out	of I/O
∫ ↔	Favorites	Recor	d Nome	паше	۱Ď	of tasks			time used	requests	requests	
		Q 😫)	V A V	V 🗛 🔨	V 🗛 🔨	V 🗛 🔨	V 🗛 🔨	VAN	V A V	VAX.	VA 1
		1 🗖	IYK3ZDB3	WUIZD B3	MV2C	6	Active	0640	0:00:05.4332	0	0	165
	avorites editor					-				-	-	
	<u>ew editor</u> ser editor		Favo							1 rec	ords on 1 p	cages.
	ser editor					1			1	· · · · ·		



Adding a favorite

- Click ic how on view
 - Displays a screen to add a title

CICSPlex SM Web	User Interface - IYK3ZDB3 - DBUSBY - Microsoft Internet Explorer	
IBM。		CICSPlex SM Web User Interface
⊘ ← ∎← ←		8
₽ <u>Files & DBZ</u>	Add to Favorites	
+ Journals		
<mark>₊</mark> <u>Queues</u>	Enter a title for the new Favorite. Click 'OK' to add Favorite.	
+ Transactions	Title text	
<mark>⇔</mark> <u>Programs</u>	Title:	This text will appear as the link to the
<u> </u>		chosen destination
<u> </u>	ОК	Cancel
the v	iew will be accessible from the N	Navigation trame
<mark>-</mark> ♦ <u>View m</u>	enus	
– <u>Favorite</u>	<u>25</u>	
Mu fougrito	. 1	

My favorite 2

<u>My_favorite_3</u>

Special Favorites editor



Expand / collapse filters

- Can collapse filters when not in use
 - To display more data in tabular views
 - Filters expanded

_			
-	Context:	DWBPLEX1	
	Scope:	DWBPLEX1	
	Task ID:		
	Transaction ID:	Aa	Automatic refresh: 🗖 <mark>60 s</mark> econds.
	Dispatch status		Refresh
	Filters Co	llapsed	
4	Context='DWBF status="	PLEX1' Scope='DWBPLEX1' Task ID=" Transaction ID=" Dispatch	Automatic refresh: 60 seconds. Refresh

- New FILTERSTYLE parameter in WUIPARM
 - FILTERSTYLE (<u>EXPAND</u> | COLLAPSE)
 - specifies how the filters should be displayed by default





Architected urls

- Prefix:path?selectioncriteria
- Prefix is http or https
- Path is
 - Hostname:port/CICSPlexSM/codepage/userid
 - Hostname:port/CICSPlexSM/codepage/userid/MENU/menuname
 - Hostname:port/CICSPlexSM/codepage/userid/VIEW/viewset.view
 - Hostname:port/CICSPlexSM/codepage/userid/DATA
- Selectioncriteria
 - Standard url query string format to qualify request
 - e.g. &Context=testplex&scope=aorset



WUI Editor





Why create your own views?

- Supplied views
 - object based
 - Resource references and navigable
- Customised views
 - Task based
 - Specific to your system e.g. online stock trading company
 - Pre market open checks menu and views
 - Post market checks menu and view
 - Problem determination menus and views
 - Help desk views
 - System cut over menus and views
 - All in *your* terminology with the data which is important to *you*
 - Can be integrated into your online web documentation





CICSPlex SM W	eb User Interface Editor - IYEMSW1W - PJ -	Microsoft Internet Explorer		
IBM.				CICSPlex SM Web User Interface
				0
Special <u>New Home window</u>	CICSPlex SM Web User Interfa	ce Editor		
<u>New editor window</u> <u>Close window</u>	Select Web User Interface resource type to	work with. Close this window to e	xit the Editor when you have finished.	
<u>Sign off</u>	Web User Interface resource			
	<u>Menus</u>		Work with Menus	
	<u>View sets</u>		Work with View sets a	nd Views
ど Done				🔮 Internet



BM			CICSPlex SM Web User Interfac
ecial w Home window	Tabular View Compon	ients	
w editor window se window n off	Select the tabular View compo finished. Click 'Cancel' to aban		nd can select other components later. Click 'OK' when you have
	Selected view		
	View:	TABULAR	
	View title:	Dynamic storage area	
	Object:	CICSDSA	
	View set:	EYUSTARTCICSDSA	
	Tabular view components	5	Edit the columns of the table and their contacts
	1 <u>Table contents</u> 2 <u>Title and annotation</u>		Edit the columns of the table and their contents. Edit the View title and the annotation that appears at the bottom of the display.
	3 Action buttons		Edit the buttons that will be available to perform actions or launch action confirmation panels.
	4 View help location		Edit the location of the help page, if any.
	5 <u>Available filters</u>		Edit the set of attributes and parameters that will be made available to the user to filter the Object instances on the display.
	6 Context and Scope or	otions	Edit the Context and Scope display options.
	7 <u>Tabular View display</u>	options	Edit the display options, including the number of rows to display and the availability of automatic screen update.
	OK		Cancel
			🔮 Internet



Setting filter confirmations in the WUI Editor

	Interface Editor - INCOSAMI - ISHATTAR - Microsoft Internet	Menu Choice Type						
IBM.	Menu Components	Select the type of the Menu choice and	click 'OK' to continue.					
Special New Home window New editor window Close window Sign.of	Menu Components	Selected menu						
		Menu: TI_MENU	Menu Choice Co	omponents				
		Menu choice type	EYUVE01281 Menu choic	e title and annotation have been edi	ited.	0		
	Menu: TI_MENU Menu title: Menu components	C Menu link		Select the menu choice component you wish to edit. You will return to this screen and can select other components later. Click 'Finish' when you have finished.				
	1 Title and annotation		Selected item					
	2 Context and Scope options	C External URL	ltem:	TASK tabular view				
	3 Menu contents	Edit the menu contents.	Menu:	TI_MENU				
	4 Menuhelo location	Edit the location of the help not applicable when the Me Navigation Frame.)	p page, if Menu choice compor	lents				
	Save		1 <u>Title and annotation</u>		Edit the Menu choice title and ar	notation.		
パージが表示されました			2 Destination	5	Edit the destination for the Menu	choice.		
	Target Viev	w name: 🛛 🖌 🖌	Finich					
	Filter confirm	ation						
	☑ Use filter co	onfirmation prior to get			cted, the user will be able to a before getting the data for th			
	OK					Cancel		



User profile editor





User group profiles

- Set profiles for groups of users
 - groups such as..
 - Operators, Sysprogs, Developers, etc.
 - user group profile contains information for
 - result set warning count
 - default main menu and navigation menu
 - default context and scope, CMAS context
 - if not retrieved from profile, defaults from WUIPARM is used
 - New "User Group" object to store profile information
 - Security needs to be activated in the WUI
- Setting up the user group
 - To create a user group...
 - Use the new User Editor to create the user group profile
 - Create a user group with the same name in the ESM
 - Associate a user to the user group
 - Set the user group as the user's default user group in the ES

Favorites editor View editor User editor Niew window Close window Sign off

Special



Managing user group profiles

- User Editor (for administrators)
 - "User groups" screen
 - Can create, edit, delete a user group and its profile

CICSPlex SM Web User I	nterface User Editor - IVCOSWW1 - ISHWTAR - Microsoft Internet Explorer				
IBM.		CICEDIay SM Wab			
		Edit User Group F	Profile	S/	
Special	CICSPlex SM Web User Interface User Editor			20	
New Home window		EYUVE09491 User group (TI	l@TEST) has beei	en created.	
New editor window Close window	Select User resource type to work with. Close this window to exit the Edito	Enter values for the User grou changes.	up profile attributes	s. Click 'Save' to save all your changes. Click 'Abandon' to discard all your	
Sign.off	User resource	changes.			
		Selected user group			
	User groups	User group:	TI@TEST		
4	Users	Profile attributes			
	operation to perform on User groups. Click 'Finish' to return to user resource selection to perform on User groups.	Warning record count		Maximum number of records displayed without a warning message. Values can be in the range 0 to 99999999.	
Opera	tions	Default main menu:		Enter the name of the default main menu.	
	rate Create a new User	Default navigation menu:		Enter the name of the default navigation menu.	
C Edi	t Edit an existing Us	Default context:		Default 8 character context setting.	
Del	ete Delete an existing	Default scope:		Default 8 character scope setting.	
Finish		Default CMAS context		Default 8 character CMAS context setting.	
		Save		Abandon	
		3			



Favourites editor





Favorites editor

- To alter the list of Favorites
 - Move
 - change position of an item on the favorites list
 - Copy
 - copy an existing favorite to a different name
 - Edit
 - change the title, target view set and view, context and scope, filter settings
 - Delete
 - delete an item





Favorites editor sample – editing a favorite

Select Favorite to	Edit		
Select the favorite you wish to	edit and click 'OK' to continue.		
Current user	Selected item		
	ISHWTA ISHWTA	My favorite 1 nents Selected view link	
Last modified on: Favorites contents	2004/07 1 <u>Title and annotation</u> 2 <u>Destination</u>	View set and view: EYUSTARTCICSRGN.TAB	
		View link components	Target View set
Favorites • <u>O My favorite 1</u> • <u>O My favorite 2</u> • <u>O My favorite 3</u>	>	Target View set and View 2 Context and Scope settings 3 Filter attributes and parameters Finish Category	C Use an existing View set Existing target View set: EYUSTARTCLCACHE EYUSTARTCMAS EYUSTARTCMAS EYUSTARTCMASLIST EYUSTARTCMDMSAPS EYUSTARTCMDMSAPS EYUSTARTCMDMSAPS EYUSTARTCMDMSAPS EYUSTARTCMTPMDEF EYUSTARTCMTPMDEF EYUSTARTCMTPMDEF EYUSTARTCMTPMDEF EYUSTARTCMTPMDEF EYUSTARTCMTPMDEF
			 Use a specified View set Target View set name: EYUSTARTCICSRGN



Managing favorites for other WUI users

- User Editor
 - "User" screen
 - Can create, edit, delete a user and its favorite list

CICSPlex SM Web User	nterface User Editor - IYCQSWWI - ISHWTAF		Plex	Select Favori	te to Edit	<u>S/</u>
Special	CICSPIex SM Web User Interface User Editor Select User resource type to work with. Close this window to exit the Editor when you have fin User resource			Select the favorite you wish to edit and click 'OK' to continue.		
New Home window New editor window			Current user			
<u>Close window</u> Sign.off			User:	ISHWTAR		
	User groups	Work with U	ser arou	Last modified by:	ISHWTAR	
	Users	Favorites Editor		Last modified on:	2004/08/11 14:07:35	
User Ed		EYUVE0978I User (ISHWTAR) has been opened for edit Select an operation to perform on Favorites.		Favorites contents	S	
Select an op	eration to perform on Users. Click	Operations		Favorites		
Operatio	ns	Create	-	• © My favorite	<u>ə 1</u>	
Create	2	<u>Move</u> <u>Copy</u>		O <u>My favorite</u>	<u>92</u>	
		Edit		ок		Cancel
Finish		Delete Save		Delete an existing favori	Abandon	



CICSPlex SM setup Install and activate CMAS Configure MP CMAS Define plex Regions in CICSplex WUI Server region Plex information Link to other CMAS MP Other CMAS involved Configure other CMAS Link to other CMAS Install agent code

- Install and activate WUI Server
 - Autoimport of WUI views



Summary

- Fully functional Single System Image System Management tool
- Provided as part of CICS Transaction Server
- Providing
 - Resource definition
 - Operations
 - Thresholding
 - Automation
 - Dynamic workload management
 - Modern Browser interface
 - Scripting APIs
 - Integration with IBM System Management tooling

