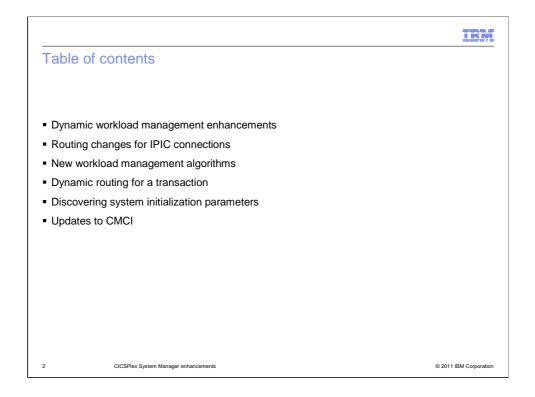
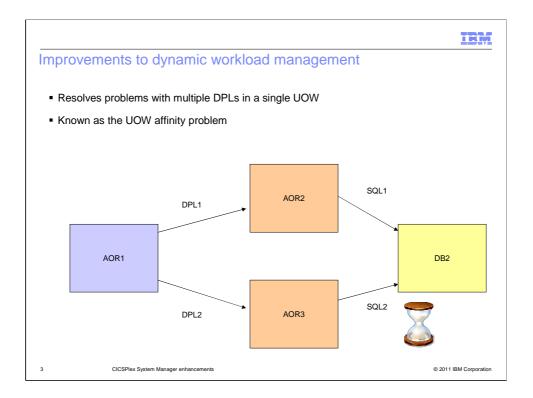


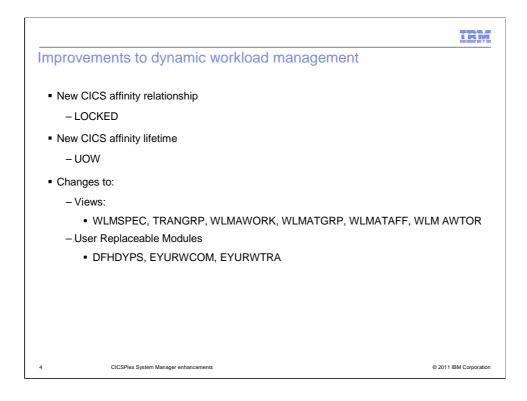
CICSPlex SM System Manager has been enhanced to improve the management of different workloads in CICS.



This module provides an overview of the enhancements to system management. These enhancements include dynamic workload management, routing changes for IPIC connections, new workload management algorithms, dynamic routing for transactions, discovering system initialization parameters, and some updates to the CICS management client interface.

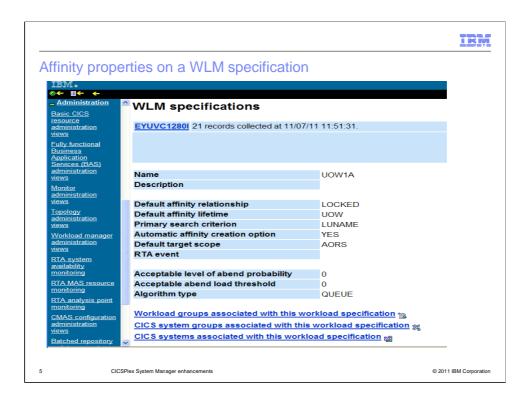


When using dynamic workload management, problems can occur during the use of multiple dynamic program link (DPL) requests in a single unit of work (UOW). When multiple invocations of the same dynamically-routed program in a unit of work access a common resource and one program link locks the resource, if the subsequent program link is routed to a different region, a deadlock can occur.



To prevent this problem, work must not be routed away from the region that locked the resource. CICS TS 4.2 introduces a new type of CICS affinity associated with a unit of work, and extends CICSPlex SM workload management (WLM) to manage these unit of work affinities for DPL requests. The new affinity is restricted to programs that are dynamically linked. Programs with this type of affinity are routed to the same target region for the duration of a unit of work. These affinities are defined with an affinity relation of LOCKED and an affinity lifetime of UOW.

In CICSPlex SM, you can create transaction groups and WLM specifications incorporating this new type of affinity using the TRANGRP and WLMSPEC resource tables. CICSPlex SM workload management administration views are updated with new fields and field values to configure unit of work affinities. The Active workloads detailed view is also improved by the addition of new fields to display extra workload-related object counts. The dynamic transaction routing user-replaceable modules DFHDYPDS, EYURWCOM, and EYURWTRA also support the improvements to dynamic workload management.



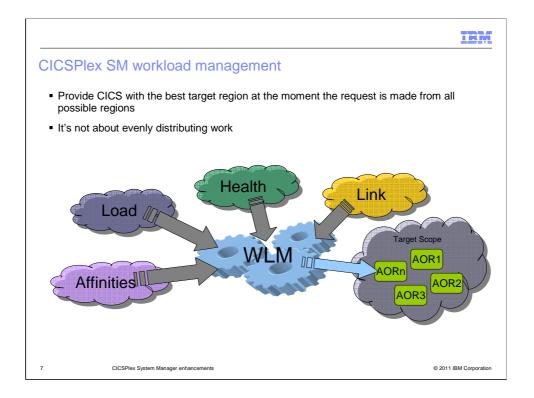
This screen capture shows the enhanced view for a workload management specification. The affinity relationship is set to LOCKED and the lifetime is set to UOW.

	IBM
WLM routing change for IPIC connections	
<ul> <li>WLM LINK weighting factor changed for IPIC connections</li> </ul>	
<ul> <li>– IPIC weighting moved above LU6.2 and Indirect</li> </ul>	
New LINK weighting order	
– Local	
– MRO/IRC	
– MRO/XCF	
– IPIC	
– LU6.2	
– Indirect	
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Workload management can use the type of connection between routing regions and target regions as a weighting factor when making dynamic routing decisions. The weighting applied to IP interconnectivity (IPIC) connections has been decreased to make target regions using this type of connection more attractive in decisions to route work requests.

In CICSPlex SM workload management, the dynamic routing process makes an evaluation of the viability or health of a target region when making workload routing decisions. These decisions are based on routing algorithms containing weighting factors. Two of the four routing algorithms, the QUEUE and GOAL algorithms, use the type of connection between routing and target regions as a significant weighting factor. The weighting applied to IPIC connections is altered to make this type of connection relatively more attractive than in previous releases of CICS TS.

In CICS TS 4.2 the relative connection weights put links in an order of priority where local is most weighted and indirect is least weighted. CICSPlex SM uses the weighting factor of the link as a multiplier against the task load and other factors to determine an overall routing weight. At the end of the evaluation, the region with the lightest weight is normally selected as the target region. No differentiation is made between the different types of IPIC links that are possible.



Workload management is about providing CICS with the best target region at the moment the request is made from all the possible candidate regions. Dynamic routing decisions are based on the most current load data for a potential routing target region. A routing decision is based on a combination of factors. The number of tasks in the region is factored as a percentile value, calculated by dividing the target region MAXTASKS setting with the current task count. The health status of the region is factored by assigning arithmetic weights, depending on whether the region is short-on-storage, taking a transaction dump, taking a system dump, running at its MAXTASKS limit, or in a CICSPlex SM stall. The speed of the link between the router and the target is factored by assigning arithmetic weights, depending on whether the target region is linked to the target by an MRO connection, an XCF connection, an LU6.2 connection, an IPIC connection, or if the target region is the router itself. If any outstanding real-time analysis (RTA) events are associated with the workload, this is factored by assigning arithmetic weights depending on the severity of the events outstanding. These events are factored in only when the event name is specified in the WLM specification for the workload or any Transaction Group definitions associated with it. Regardless of any other factors, if the routing request has an outstanding affinity associated with it, that affinity always overrides the route decision.

	IBM
New WLM routing algorithms	
<ul> <li>Exclude LINK weighting in target region selection</li> </ul>	
<ul> <li>Link neutral queue (LNQUEUE)</li> </ul>	
Route the transaction to the target region with best combination of:	
<ul> <li>Health (MaxTask, Short-on-storage, Dumping, Stalled)</li> </ul>	
- Task queue depth (or load)	
<ul> <li>Abend probability, when calculated</li> </ul>	
<ul> <li>– RTA event impact, when defined</li> </ul>	
– Link neutral goal (LNGOAL)	
<ul> <li>Route the transaction to the target region that:</li> </ul>	
- Is the most likely to allow the transaction to meet its response time goal	
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CICSPlex SM has two new workload management routing algorithms that exclude the connection type as a weighting factor in decisions to direct work requests to a target region. Links between router regions and target regions can be different types. In previous CICS releases, workload management directed work requests to a target region using one of two weighting algorithms; the queue algorithm or the goal algorithm. In both of these algorithms the type of links between the router and the target are significant weighting factors, which are used along with other factors when distributing work from a router to a target. Link weighting can have a strong impact on the routing behavior in some situations and can prevent CICS transaction routing across system-boundaries in a single-site parallel sysplex environment.

Two new algorithms are introduced; the link neutral queue and the link neutral goal. These algorithms correspond to the existing QUEUE and GOAL algorithms but exclude the connection type as a weighting factor. The link neutral queue algorithm selects the target region that has the shortest queue of work waiting to be processed, relative to the maximum number of tasks permitted in the target region, is the least affected by conditions such as short-on-storage, system dumps, and transaction dumps, and is the least likely to cause the transaction to stop.

The link neutral goal algorithm selects the target region that is the most likely to allow the transaction to meet the response time goal set for it and other transactions in its z/OS workload management class. The link neutral goal algorithm reverts to the link neutral queue algorithm when multiple target regions are achieving the same best response time goals, or when the target and routing regions are managed by different CMASs.

Specifyir	ng algorithm type on a \	v Livi specification	
IBM.			CIC
O← I← ← Administration Basic CICS	WLM specifications		
resource administration	EYUVC1317I Attribute, 'EVENTNAME', has	not been updated.	
views	Name	✓ ACTSPEC	
Fully functional Business	Description	Accounts WLM Specification	
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<u>views</u>	Default affinity lifetime	🗹 N_a 💌	
Monitor administration	Primary search criterion	🖌 Userid 💌	
views	Automatic affinity creation option	N_a 🗸	
Topology administration	Default target scope	V MRAORS	
views	RTA event		
Workload manager			
administration views	Acceptable level of abend probability	✓ 0	(0, 2-99)
RTA system	Acceptable abend load threshold	✓ 0	(0, 1-98)
availability monitoring	Algorithm type	✓ Goal ✓	
RTA MAS resource monitoring		Goal Queue Lnqueue	
RTA analysis point	Perform 'Create'?	Lngoal	
monitoring	No Yes		
CMAS configuration administration			
views			Resource name: WLMSP

You can specify the new algorithms in the same way as GOAL and QUEUE when defining a workload specification. The screen capture shows the new options on the Algorithm type field.

	IBM
Transaction level control for dynamic routing	
<ul> <li>In CICS TS 4.1 routing behavior is specified on the WLMSPEC <ul> <li>Routing algorithm applies to the entire workload</li> </ul> </li> <li>In CICS TS 4.2 routing algorithm can be specified on the TRANGRP <ul> <li>Allows different transaction to have different behaviors</li> <li>New ALGTYPE attribute</li> <li>QUEUE</li> <li>GOAL</li> <li>LNQUEUE</li> <li>LNGOAL</li> <li>INHERIT</li> </ul> </li> </ul>	
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You can now use workload routing to control dynamic routing behavior at the transaction level. You can specify an alternate dynamic routing algorithm for specific transactions in a workload that is different from the algorithm defined in the parent workload management specification. A workload specification controls the default routing behavior for all the transactions that workload management is called on to evaluate in a routing region or routing system group. You can override certain routing characteristics by supplying associated pairs of workload management definitions and transaction group definitions to specify a specialized routing evaluation to be applied to one or more transactions. However, before CICS TS 4.2 you have not been able to specify alternate workload routing characteristics in this way. Workload routing is the directing of transactions amongst a group of target regions according to the availability and activity levels of those target regions. The criteria used to select a target region is determined by the choice of routing algorithm, each of which contains a different combination of weighting factors.

In CICS TS 4.2 you can now specify one of four routing algorithms in a transaction group and this overrides the default algorithm associated with the workload specification. Specifying an alternate routing algorithm in this way also means that you can change workload routing characteristics for specific target regions dynamically without stopping your routing region.

opeenyn	ng algorithm type on a t	ransaction group	
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Enterprise Java	Transaction group definition	ons	
<u>History</u>	Name	ACTTRGRP	
Administration	Description	Accounts Transaction Group Aa	
Jasic CICS esource administration Aews Uly functional Business Application Services (BAS) administration dews Monitor Administration dews Topology administration dews	Transaction group status Primary search criterion Affinity relationship Affinity lifetime Automatic affinity creation RTA event Acceptable level of abend probability Acceptable abend load threshold Algorithm type	Active  Luname  Luname  So Luname  So Luname  Luname	(0, 2-99 (0, 1-98
<u>Workload manager</u> administration <u>views</u> <u>RTA system</u>	Perform 'Update'?	Lnqueue Goal Lngoal	
availability monitoring RTA MAS resource monitoring RTA analysis point monitoring	u a		Resource name: TRAN

This screen capture shows the algorithm types that you can specify for a transaction group.

lgorit	hr	n ty	/pes s	pecifie	d on W	LM s	pecific	ations				
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← ← inistration	^		l specifi	cations								<u>Inforn</u>
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(BAS) ation												
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m											LNQueue	30/12/10
i i		3 🗆	LNQWS	N_A	N_A	AORS	N_A	USERID		LNQUEUE	mode workload spec	30/12/10 16:49:26
resource			NOTG	NA	NA	AORS	NA	LUNAME		GOAL	No trangrp	21/01/11
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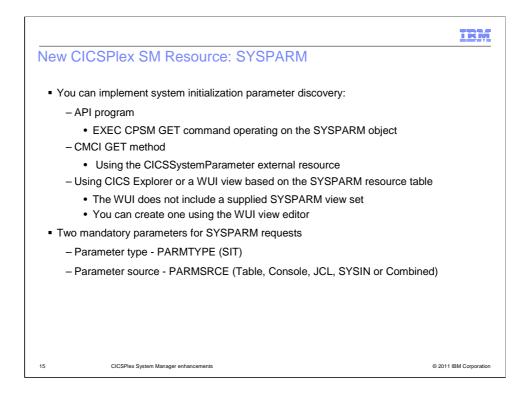
This screen capture shows the algorithm type for a set of workload management specifications. The first workload management specification in the list is called GWS and has an algorithm type of GOAL.

				IBN
Algorithm	n type specified	d on a transa	action group	
IBM.				CICSPlex SM Web Use
	Map of WLM specif	ications GWS		informa
resource administration	Context: JSENV2			
views	WLM specifications	⇒ WLM groups	⇒ WLM definitions	Transaction group definitions
Fully functional Business Application Services (BAS) administration	© <u>GWS</u>	= O <u>WLMALL</u>		$ \bigcirc \underline{WMR} \\ \bigcirc \underline{WMR} \\ \bigcirc \underline{WM2} \\ \bigcirc \underline{OTRANGRP} $
IBM. ≪∎← ←				
Administration Basic CICS resource administration views	Transaction grou EYUVC12801 1 records col	•	I.	
Fully functional Business Application Services (BAS) administration	Context: JSENV2 Name: - V TRANG			
views	<u>Name</u> yg Description	TRANG	SRP ran group	
Monitor administration	Description	VVLINI I	rangroup	
views Topology	Transaction group status	ACTIVE		
administration	Primary search criterion	USERI	D	
views Workload manager	Affinity relationship	N_A		
administration	Affinity lifetime Automatic affinity creation	N_A N_A		
views RTA_system availability	RTA event	_		
monitoring RTA MAS_resource	Acceptable level of abend			
monitoring	Acceptable abend load th		_	
RTA analysis point	Algorithm type	QUEUE	=	
monitoring CMAS configuration administration views	Transactions associated v Workload definition that t			

These screen captures show the relationship between the workload management specification GWS and its transaction group definitions. The transaction group definition has an algorithm type of QUEUE that overrides the parent workload management specification.

IBM	
Retrieving system initialization parameters	-
<ul> <li>Allows retrieval of systems initialization table values         <ul> <li>Read-only access to system initialization parameters</li> <li>Ability to access system initialization parameters from</li> <li>DFHSITxx load module</li> <li>EXEC PGM=DFHSIP,'PARM='</li> <li>SYSIN dataset overrides</li> <li>Console overrides</li> </ul> </li> </ul>	
<ul> <li>All of the above combined together in order</li> <li>Cannot retrieve the changes made after startup using system programming interface</li> </ul>	
commands	
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You can now use the CICSPlex SM API to discover information about CICS system initialization parameters and system initialization parameter overrides. The new API capability is implemented using the new CICSPlex SM resource SYSPARM. When you retrieve parameters you can retrieve the current values of the parameters in the system initialization table including any override values. You can retrieve the original parameter values as specified at system startup. You can also retrieve the values from a single override source. You cannot, however, retrieve changes in the values of parameters that were made after startup using system programming interface commands. In common with many other CICSPlex SM operations, you can control which CICS regions the retrieval operates on by specifying context and scope.



The API capability is implemented using the new CICSPlex SM resource SYSPARM. The SYSPARM resource has two required parameters, parameter type and parameter source, associated with the GET operation. You use these parameters to specify which parameters to retrieve according to their source.

You can implement system initialization parameter discovery in three ways. You can use an EXEC CPSM GET command operating on the SYSPARM object in an API program. You can use the CMCI GET method operating on the equivalent CMCI external resource. You can also use CICS Explorer or the web User Interface view to view the system initialization parameters. In CICS Explorer, select the region and right-click. Select Show SIT parameters in the menu and click the parameter source. The WUI does not include a supplied SYSPARM view set, but you can create one using the WUI view editor.

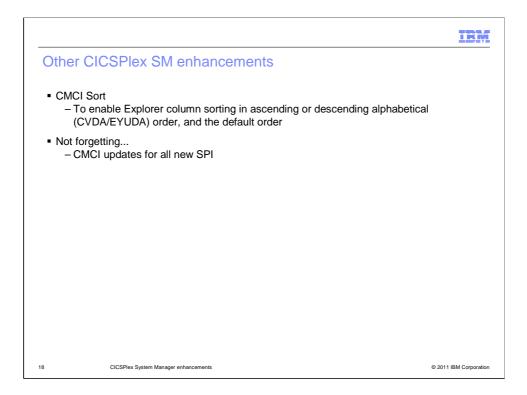
When you use EXEC CPSM GET command or CMCI, you can define a parameter expression using PARMSRCE and PARMTYPE to specify which parameters to retrieve. In the CICS Explorer and Web User Interface, you can use the parameter source and type as filters to control the displayed records.

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IBM CICS Explorer			SIT Parameters (COMBINED)	~				- 0			
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This screen capture of CICS Explorer shows a combined view of all the system initialization parameters for a CICS region.

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IBM CICS Explorer			SIT Parameters (SYSIN)				_ 0		
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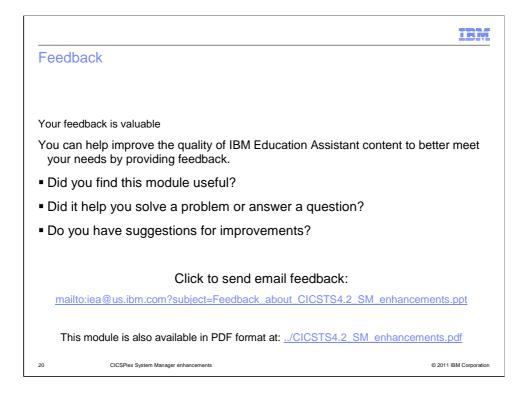
This screen capture of CICS Explorer shows the system initialization parameters where the parameter source is SYSIN.



The CICS management client interface (CMCI) has been enhanced to support column sorting in CICS Explorer. You can sort in ascending and descending alphabetical order by CVDA and EYUDA. The interface has also been enhanced to support all new system programming interface commands.

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	Explorer											E.	
Explorer Edi	t Project Operations	Definitions Search	Window Help										
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MRMPEG		NABLED CLOSED	MRWPEG1	CONM	ENABLED	0	EYU9XLOP	240	DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
		VABLED CLOSED	MRMPEG1 MRMPEG1	COLU	ENABLED ENABLED	0	EYU9XLOP EYU9XLOP	255	DFHTCL00 DFHTCL00	NOTPURGEABLE NOTPURGEABLE	NOTRANDUMP	STATIC	
		VABLED CLOSEL	MRMPEG1	CONL	ENABLED	0	EYU9XLEV	255	DFHTCL00	NOTPURGEABLE	NOTRANEUMP	STATIC	
	I UPHUOPK V D		MRWPEG1	CONL	ENABLED	0	EYU9XLEV	255	DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
< 1		>	MRMPEG1	COVC	ENABLED	0	EYU9VKEC	1	DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
C Error Log	RTA Events		MRWPEG1 MRWPEG1	COVG	ENABLED	0	EYU9VKEC EYU9VKEC	255	DFHTCL00	NOTPURGEABLE NOTPURGEABLE	NOTRANDUMP	STATIC	
Workspace Lo			MRWPEG1 MRWPEG1	COVA	ENABLED	2	EYU9VKEC	150	DFHTCL00 DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
	9 ,0 0, • (	a 🗙 🗎 🧭 🎽	MRWPEG1	COSH	ENABLED	0	EYU9NXSH	255	DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
type filter te	xt		MRMPEG1	COSH	ENABLED	0	EYU9NXSH	255	DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
Message			MRMPEG1 MRWPEG1	CORM	ENABLED	0	EYU9NXRM EYU9NXRM	255	DFHTCL00 DFHTCL00	NOTPURGEABLE NOTPURGEABLE	NOTRANDUMP	STATIC	
	100I Connected user M		MRMPEG1	COLM	ENABLED	0	EYU9NXLM	255	DEHITCLOO	NOTPURGEABLE	NOTRANDUMP	STATIC	
	624E: Get Task from "M		MRWPEG1	COLM	ENABLED	0	EYU9NXLM	255	DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
	NX0595E: An unexpect		MRWPEG1	COND	ENABLED	0	EYU9NPS2	255	DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
	INXUSASE: An unexpect	ed faiure occurrec	MRMPEG1	COND	ENABLED	0	EYU9NPS2	255	DFHTCL00	NOTPURGEABLE	NOTRANDUMP	STATIC	
< 11		2	MRWPEG1	CODB	ENABLED	U	EYU9DBUG	255	DFHTCL00	NOTPURGEABLE	NOTIONADOMP	STATIC	~

This screen capture of CICS Explorer shows a list of transactions sorted by program in descending order.



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