What’s new in IBM Z OMEGAMON AI for CICS

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CICS Virtual User’s Group – May 20, 2025, 11:30AM EST

Agenda

Introduction to IBM Z OMEGAMON for CICS

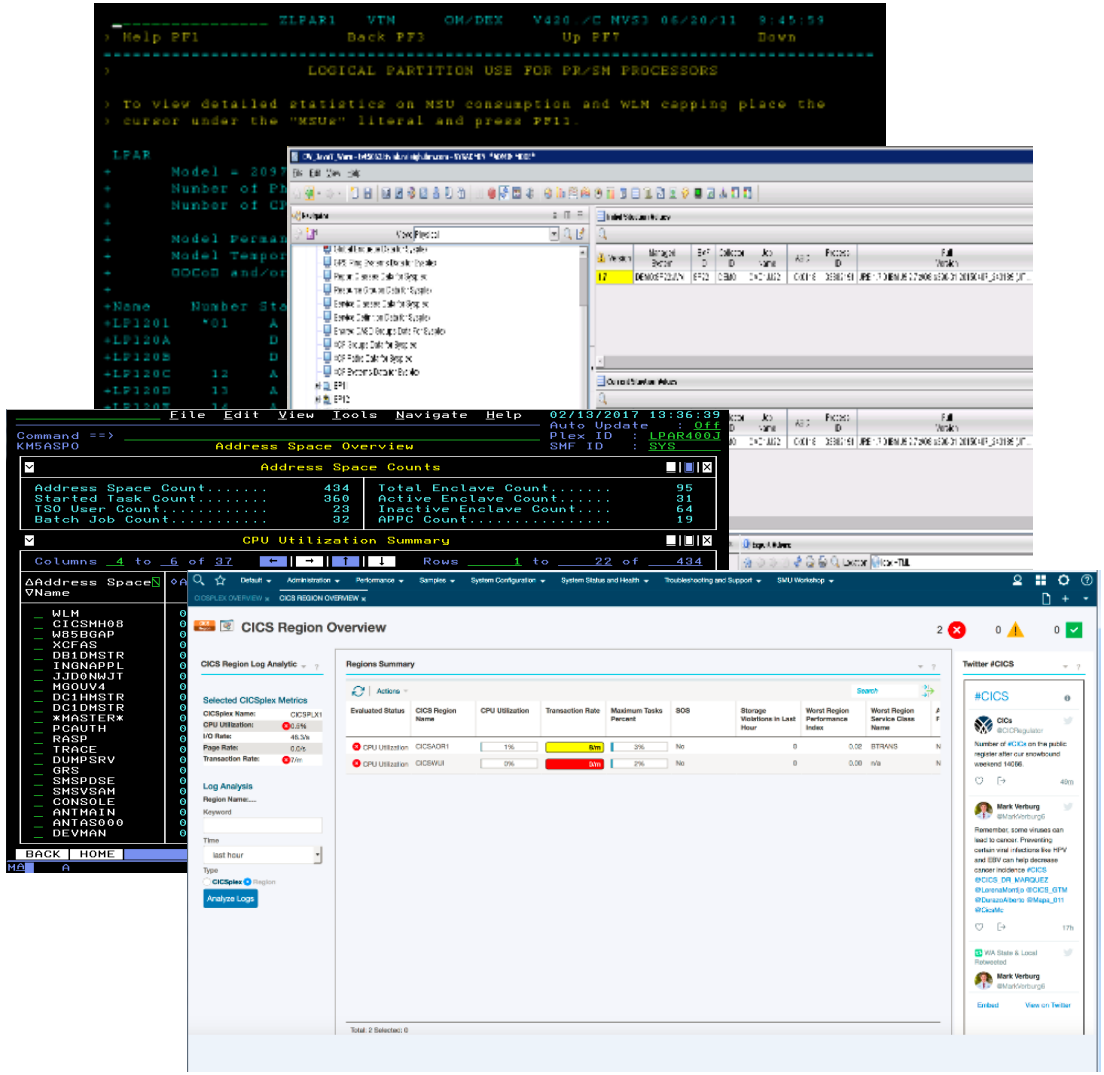
High-level description of new features at each release and FixPack

Deep dive on the following features:

- Program Tracking Support
- Resource Limiting resolution increase
- Corelating CICS Tasks and DB2 Threads
- Hiding Background tasks
- CP/SM System Group Support
- IBM Z OMEGAMON AI Insights 2.1 support
- Extended Task History support for VSAM datasets
- Bookmarking of selected workspaces
- Previous task and original task data
- New display for task time values
- Current Average Response Time for CICS Regions and CICSplexes
- Improved Context command allowing greater navigation
- Viewing summary of Transaction Waits

IBM Z OMEGAMON AI for CICS Overview

- OMEGAMON for CICS has been around since early 1980s:
  - We still call it the “Classic” UI, but it has evolved continuously since then.
- Some of the updates added over the years:
  - CICSplex wide data viewing and summarization
  - Real-time and Historical Data Collection and Reporting
  - Application Trace Facility
  - Bottleneck Analysis
  - Resource Limiting
  - Proactive Alerting
  - Task History collection
  - New CICS metrics and statistics
  - CICS TG support
  - Updated User Interfaces
  - Integration with other OMEGAMONs and other tooling
- Commitment has been to deliver Day One support for latest levels of CICS (including supporting open beta clients)
- **Version (V5.6) released in June 2022**
- **Version (V6.1) released in November 2024**



New Features in V5.6.0

Base IBM Z OMEGAMON for CICS 5.6.0, June 2022

- **Program Tracking Support:** Ability to track program usage by transaction and region.
- **Resource limiting** resolution for CPU has been increased, to allow transaction limits to be set in millisecond increments. This lets you take action much sooner, to prevent tasks from impacting the region.
- **Finding resources within a group of regions** is now much more intuitive. The new FIND command menu provides a drop-down list of resources to search for, together with related help for each resource type. FIND is now extended to CICS temporary storage and transient data queues.
- **New CICS policy statistics** are available. For customers using policies within CICS to take actions on applications, IBM Z OMEGAMON for CICS will now show statistics relating to the use of those policies.
- **CICS Transaction Gateway Memory statistics** are now available. This allows users to monitor their CICS Transaction Gateway Daemon for problems related to memory usage.

New Features in V5.6.0

FixPack 1, October 2022

- **Correlating CICS tasks and Db2 threads:** The CICS Task History Detail panel now lets you correlate CICS task history with Db2 thread history. You can navigate directly between the CICS Task History Detail panel and the Db2 Thread History Detail panel in IBM OMEGAMON for Db2 Performance Expert.
- **The FIND command:** Updated to support Logo ID, BUNDLES TS / TD Queues and Ports, also added wildcard support.

FixPack 2, February 2023

- **Background Tasks:** The ability to designate the background and do not need to appear in the workspaces used for routine monitoring.
- **CP/SM CICS System Groups:** OMEGAMON will now import any CP/SM CICS system groups which are configured.
- **TRUE Monitoring:** You can now monitor activity generated by Task Related User Exits.
- **FINDing the TCP/IP Service Port:** You can now search across a CICSplex or group of regions for Port used by a region's TCP/IP service.

New Features in V5.6.0

FixPack 3, December 22, 2023

New Resource Types for Resource Limiting

Three new Resource Types are available for Resource Limiting. These give you new options for which transactions you want to include and exclude from Resource Limiting:

- **RUNTIME**: This is for held tasks due to MXT or Class maximum, where you do not wish to include the time held in the resource limit. The task will be allowed to run for the time specified.
- **CPUGP**: This limits the task time on a general processor. It excludes time where the task was using CPU on a specialty processor.
- **CPUQR**: This is the time spent on the QR TCB. It excludes time on a specialty processor or an Open TCB. With only one QR TCB, it can be important that tasks not spend too much time occupying it.

CICSplex transaction rate displayable per second or per minute

CICS API Requester application monitoring via zCEE

New values for task displays provides the CPU on General Purpose, specialty, and CPU eligible for specialty

FIND for Temporary Storage models

New Features in V6.1.0

Base IBM Z OMEGAMON AI for CICS 6.1.0, November 2024

- **Support for IBM Z OMEGAMON AI Insights 2.1:** IBM Z OMEGAMON AI for CICS integrates with IBM Z OMEGAMON AI Insights, a diagnostic tool that helps deliver actionable data, analyses, and alerts, enabling real-time monitoring and helps you proactively manage performance on your site's CICS environments.

- **Task History support for Extended VSAM datasets (>4 GB):** Task History now supports Extended Linear datasets, allowing the maximum size to exceed 4 GB. The maximum size now supported is 16 TB.

- **Bookmarking of selected workspaces** allows you to navigate quickly to frequently used workspaces. You can save the bookmarks for use on subsequent logons.

- **Reduced CPU footprint:** OMEGAMON AI for CICS now has zIIP-enabled Task History collection and data retrieval processing, and SLA data collection. Also, there is significant code-path reduction when building the monitoring data.

- **RLIM command simultaneously across multiple regions:** Dynamic changes are often made in large number of CICS regions to limit resources or exclude transactions and requires spending considerable amount of time. The **MULTI Region** option is now available for you to process each request type by setting the value as Yes for a select group of CICS regions.

New Features in V6.1.0

Base IBM Z OMEGAMON AI for CICS 6.1.0, November 2024

- **Previous task and original task data:** OMEGAMON Task and Task history displays will now show data related to the original task in the CICS environment as well as the prior task or prior hop, if they are not the current task.

- **New display for task time values:** Task time values are shown in a new display where the task timings are separated into **WAIT** times, that contribute to task delays, and **ACTIVE** times which accumulate while the task is dispatched.
- **Program tracking contains the total Getmains by a program:** Program Tracking now collects data related to all the Getmains requests for a program in the USER storage below or above the 16 MB line.

- **Task History can be paused:** You can now pause and resume Task History collection, allowing display of previously collected Task History.

- **Umbrella summary display for Task History:** The Umbrella summary display provides information related to the Umbrella data values for a task.

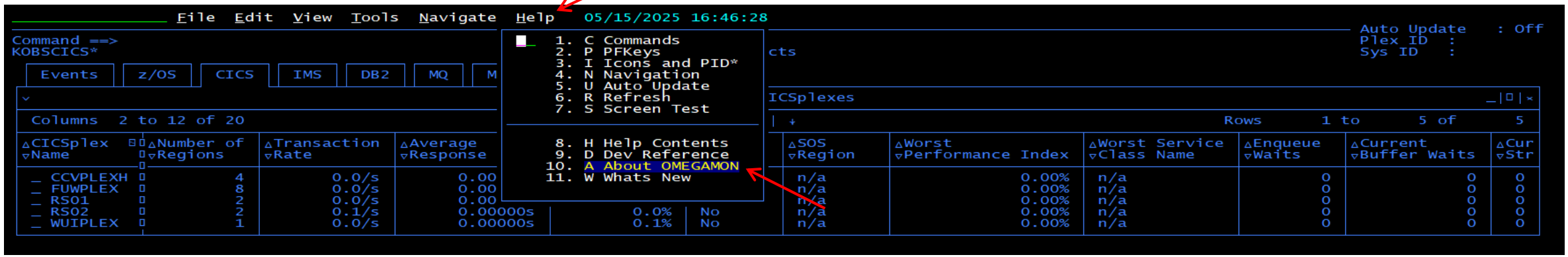
- **Standard started message:** Each OMEGAMON started task now displays a single WTO message that can be used for automation and appears in the JESMSGLG/JESYSMSG.

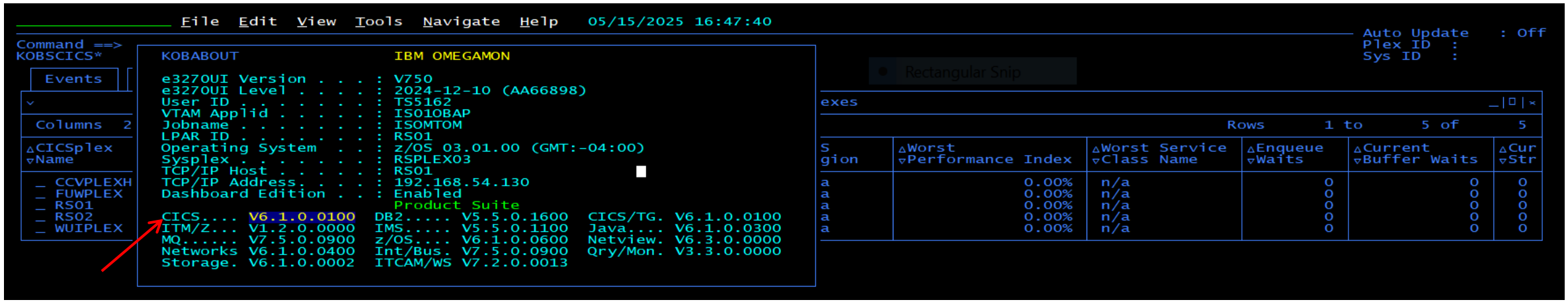
New Features in V6.1.0

FixPack 1, March 2025

- **Current Average Response Time for CICS Regions and CICSplexes:** The new feature enhancement, Average Response Time column in the CICS Region Summary and All Active CICSplexes workspace shows the average response time calculated for the transactions which have been recently completed allowing more rapid detection of changes.
- **Improved Context command allowing greater navigation:** Context command selection is now available on the **All Active CICSplexes** screen using the C Context Selection option. A new workspace lists the context to select from the available CICSplex, LPAR, USERGRP, and CSYSGRP types.
- **Viewing summary of Transaction Waits:** In the Region Task Summary workspace, a new Transaction Waits tab is added to view the details of the wait types/reasons for transactions.
- **Viewing full value for long SIT parameters:** You can view SIT parameters values for the available CICS Resources using the L CICS System Initialization option.
- **OMEGAMON CICS Global options information:** In the CICS Control Functions panel, a new option G CICS Global Options is added to view the details of various global options such as Global Name with dataset, Resource Limiting, Application Trace, Online Data Viewing, and several other CICS Global options.
- **Enabling OMEGAMON in a CP/SM CMAS region:** OMEGAMON can now be initialized in a CP/SM CMAS region to monitor tasks, collect near-term history, and trace details.

OMEGAMON Version and Fix Pack level





OMEGAMON for CICS V5.6 (Base Release)

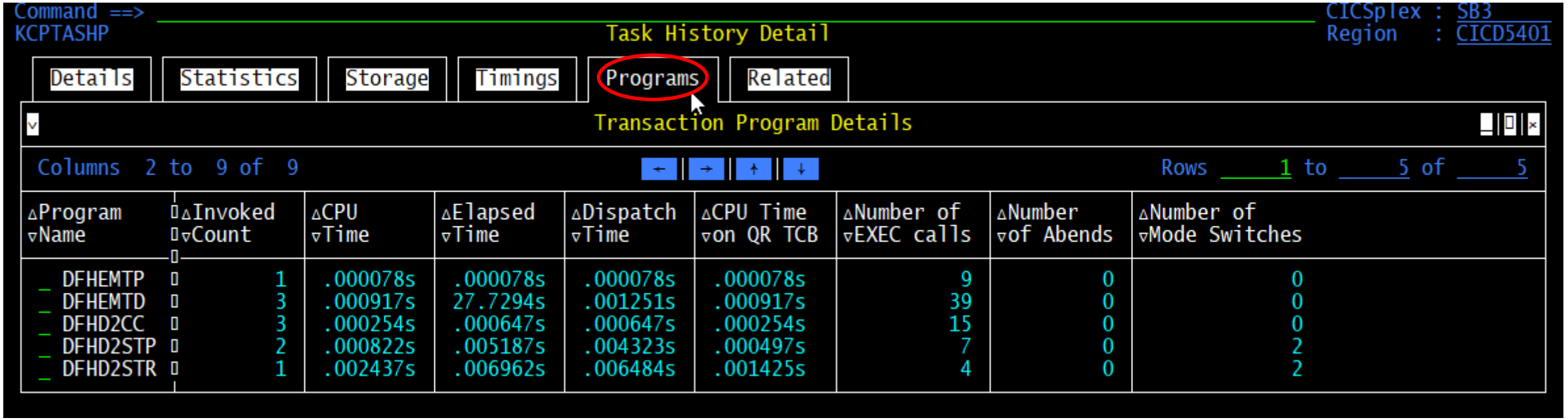
Program tracking

- Program Tracking is a new feature which allows users to see all the programs that have run for a task.
- For a program to be tracked it must be either invoked by CICS as a result of an EXEC CICS command or application TRUE request or be called directly and issue an EXEC CICS call.
- We will only determine it is a new program via the call if the EXEC CICS request is issued from a different load module.
- This feature is NOT enabled by default. It can be controlled dynamically via the TOM.
- It can be defined in the global.

Program tracking – Task Level

If program tracking is enabled and data has been collected for the task the programs tab will appear.

On an active task the program in control will update upon a refresh.



▵Program ▿Name	▵Invoked ▿Count	▵CPU ▿Time	▵Elapsed ▿Time	▵Dispatch ▿Time	▵CPU Time ▿on QR TCB	▵Number of ▿EXEC calls	▵Number ▿of Abends	▵Number of ▿Mode Switches
DFHEMTP	1	.000078s	.000078s	.000078s	.000078s	9	0	0
DFHEMTD	3	.000917s	27.7294s	.001251s	.000917s	39	0	0
DFHD2CC	3	.000254s	.000647s	.000647s	.000254s	15	0	0
DFHD2STP	2	.000822s	.005187s	.004323s	.000497s	7	0	2
DFHD2STR	1	.002437s	.006962s	.006484s	.001425s	4	0	2

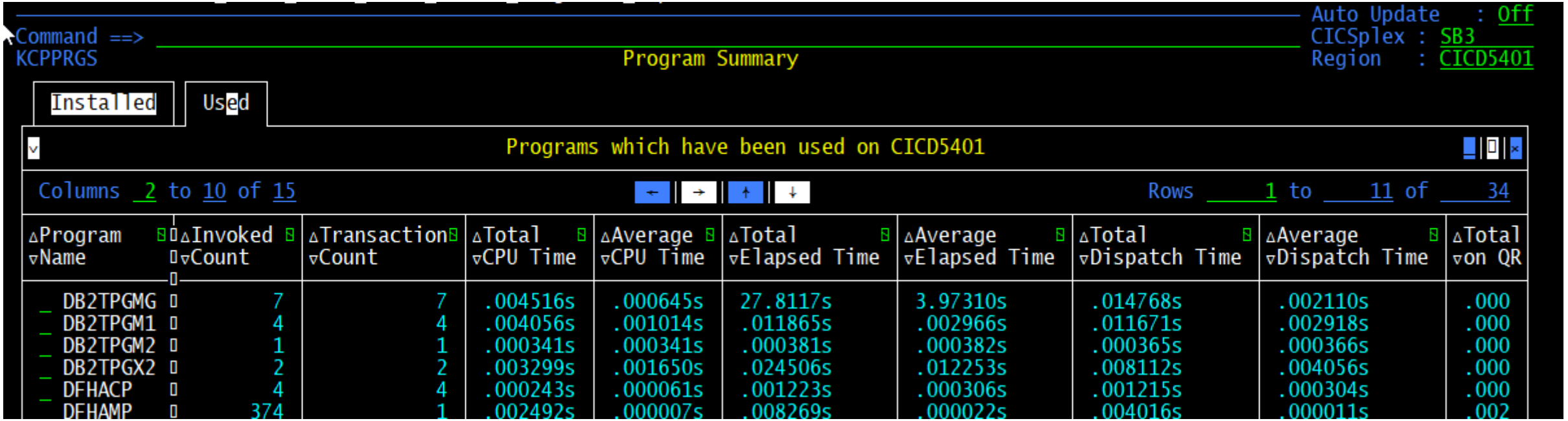
Program tracking – Task Level

- The order of the data when first selected is the order in which they occurred for the task.
- It does not show which program called which. That information cannot be inferred from this data.
- The metrics are collected for the duration that the program is the current program for the task. If program A links to B then the clock stops with A and starts on B. When it returns the clock stops on B and resumes on A. The values for B are not included in the values for A.
- If the task generates a CICS performance record, the current data is included in that and then reset; collection continues for inclusion in the subsequent CICS performance record.

Program tracking – Used Programs

If program tracking is enabled there is the option to aggregate at the region level. This is not enabled by default.

If enabled the Used programs tab will provide information about programs which have run.



Program tracking – Used Programs

- The used programs are updated when the performance data is written for a task. It will not update for an active task.
- The data is reset when CICS resets statistics for program manager domain.
- The average values are calculated based upon the invocation count. That is the number of times a program was entered.

Program tracking – Used Programs

History and situations will only return data for programs which have any data in that period. The data recorded is the change in the data during the period.

You may see gaps where a program was not used for an interval.

File Edit View Tools Navigate Help 06/10/2022 12:35:37

Command ==>
KCPPRGH

Historical Summary

Display : HISTORY
CICSplex : SB3
Region : CICD5401

Selected item DFHEMTD

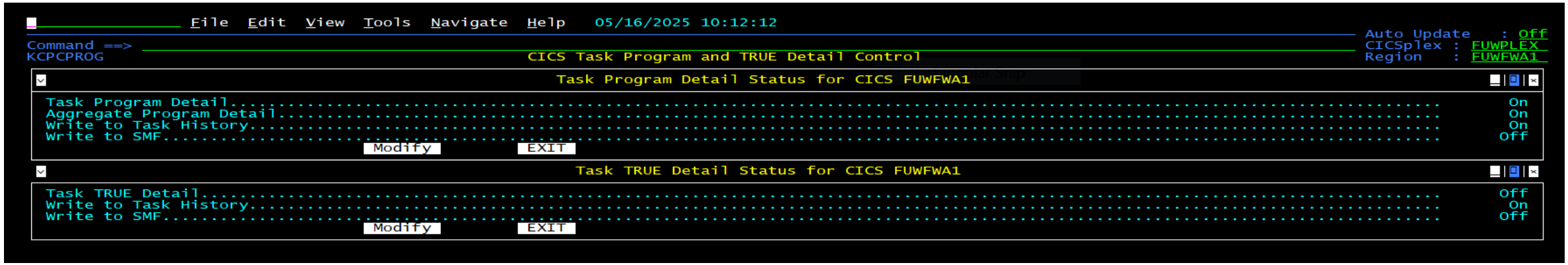
Columns 3 to 10 of 16 ← → ↑ ↓ Rows 1 to 3 of 3

◇Recording Time	◇Program Name	Invoked Count	Transaction Count	Total CPU Time	Average CPU Time	Total Elapsed Time	Average Elapsed Time	Total Dispatch Time	+Average Dispatch T
11:50:00	DFHEMTD	3	1	.000917s	.000306s	27.7294s	9.24316s	.001251s	.000417s
11:46:00	DFHEMTD	3	3	.001411s	.000471s	2m 23s	47.8730s	.001990s	.000663s
11:38:00	DFHEMTD	1	1	.000123s	.000124s	12.6119s	12.6119s	.000141s	.000142s

Program tracking – Enablement

Program tracking is not automatically enabled. To enable Program tracking you can either modify the KC2GLBL member to add it permanently or dynamically switch it on and off.

```
<PROGRAM_TRACKING>
 ENABLE=AUTO
 AGGREGATE=AUTO
 WRITE_TO_HISTORY=YES
 SMF=NO
```



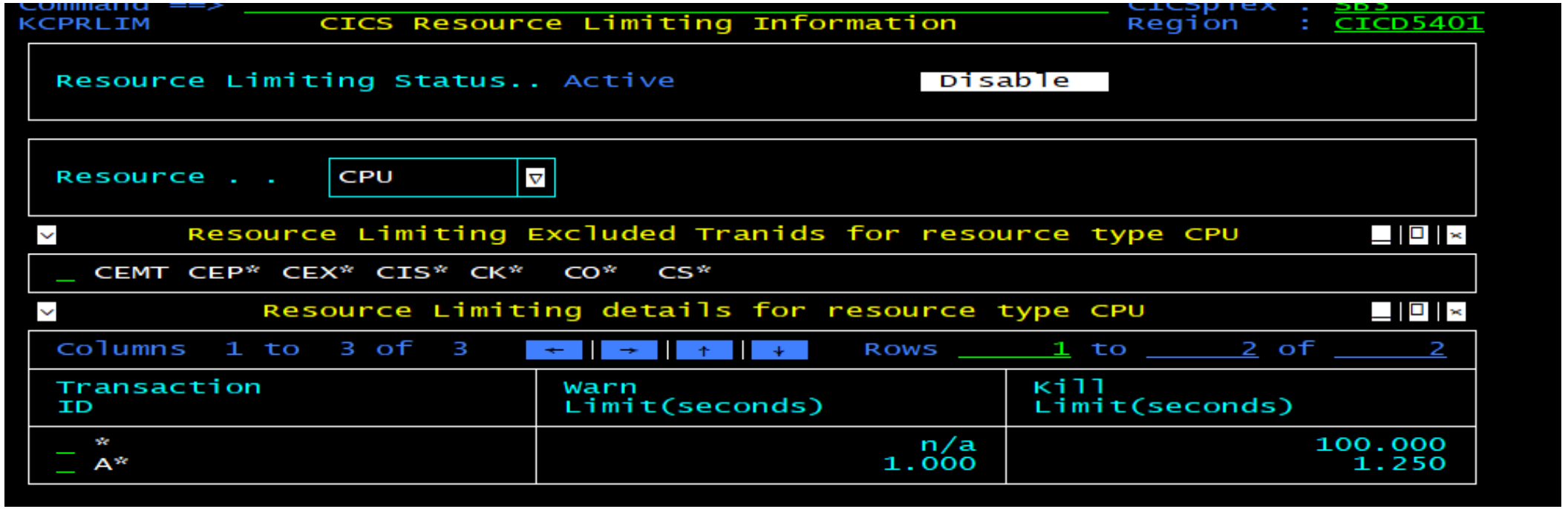
To navigate here, select any CICSPlex from the CICSPlex overview screen. From the CICSPlex Region summary screen enter “C” for CICS control functions, then a “T” for CICS Task Program/TRUE Detail Control.

Resource Limiting CPU granularity

Resource limiting for CPU can now be specified in milliseconds.

It does not have to be.

```
0444 *
0445    <<CPU>>
0446    INCLUDED_TRANS=(ATR*)
0447    WARN_LIMIT=1
0448    KILL_LIMIT=2
0449 *
0450    <<CPU>>
0451    INCLUDED_TRANS=(S*,P*)
0452    WARN_LIMIT=0.025
0453    KILL_LIMIT=0.050
0454 *
```



OMEGAMON for CICS 5.6 FP1 enhancements

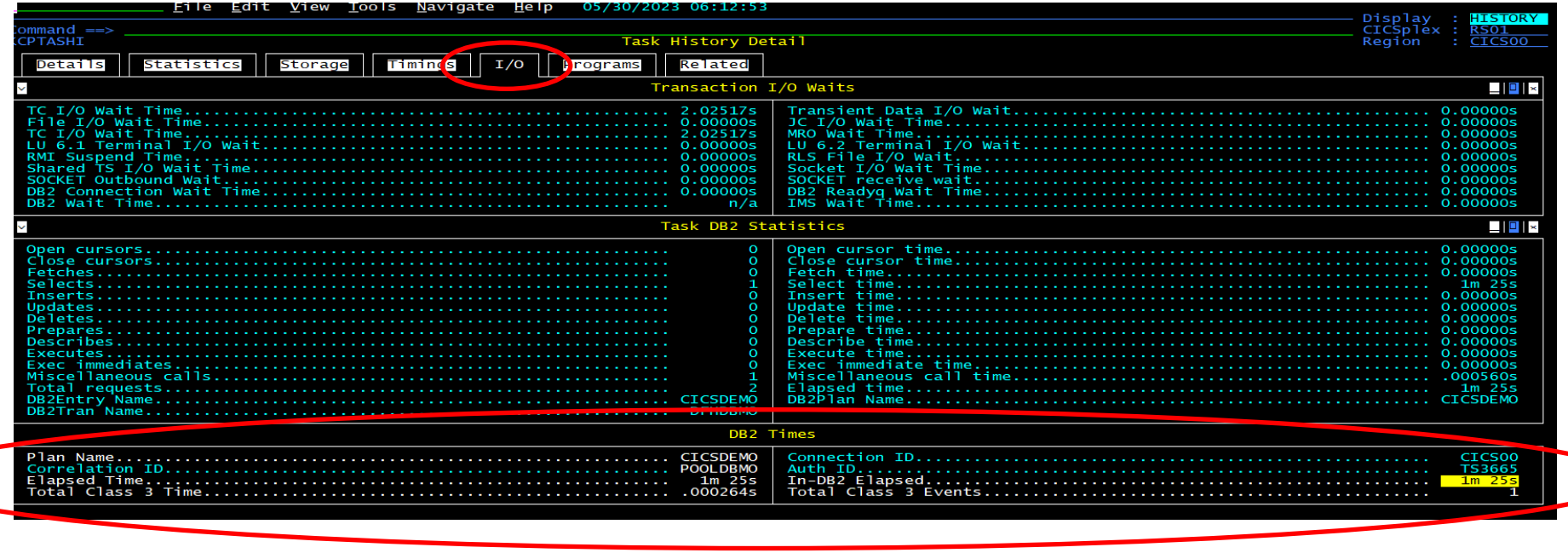
DB2 in CICS Task History

- OMEGAMON CICS can now show information relating to the Db2 thread in CICS Task History. If a task used Db2 and both OMEGAMONS are installed.
- This feature allows linking between OMEGAMON CICS task History and OMEGAMON Db2 Thread History Detail accounting.
- OMEGAMON CICS must be version 5.6.0 with PTF UJ09225 installed. OMEGAMON Db2 must be at version 5.5.0. with UI83049 installed.
- The CICS DB2CONN or DB2ENTRY must be using ACCOUNTREC or UOW or TASK for this feature to work.

Correlating CICS Tasks and DB2 Threads

The **"I/O"** tab shows Db2 related information for that task:

SQL counts

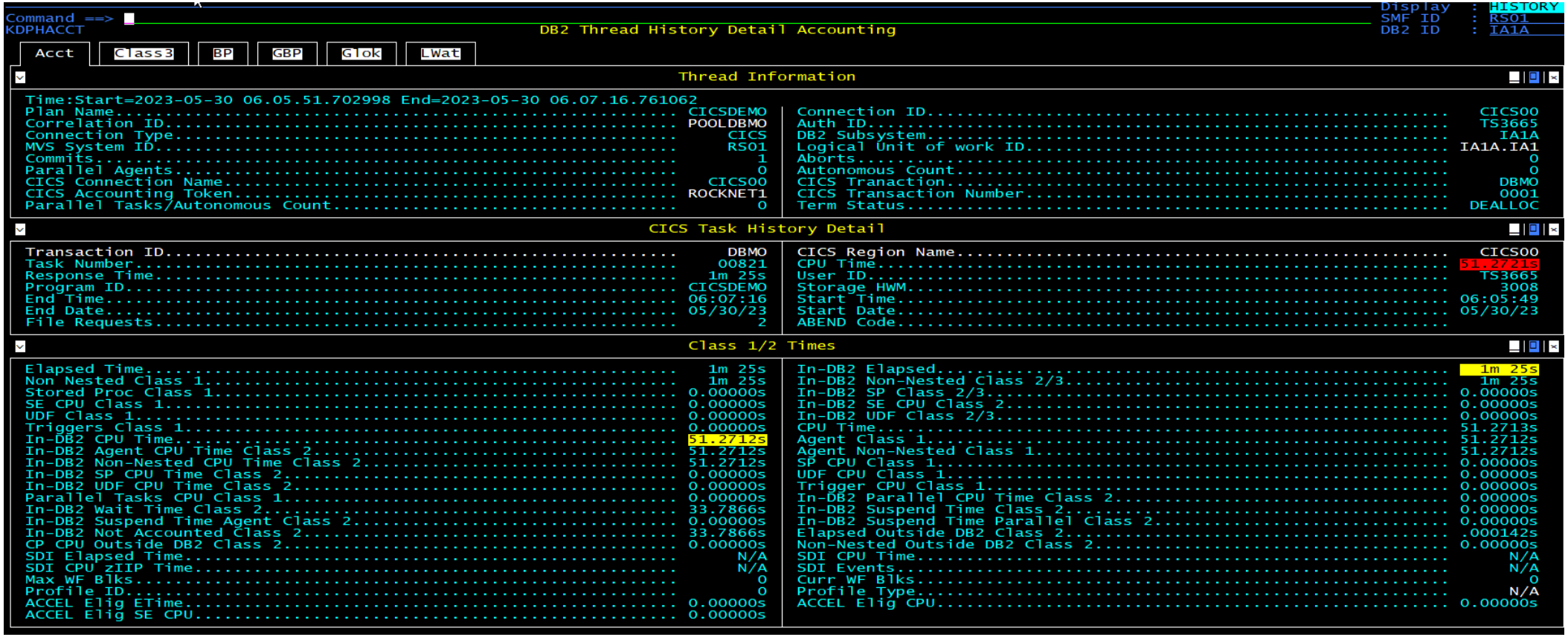


Elapsed and Delay Times from Db2 Accounting

Double click on highlighted fields navigates to Db2 Thread History
– either "Accounting" or "Class 3" (Delay) tab

Analyzing historical Information

Db2 Thread History confirms that most of the time was spent in Db2:



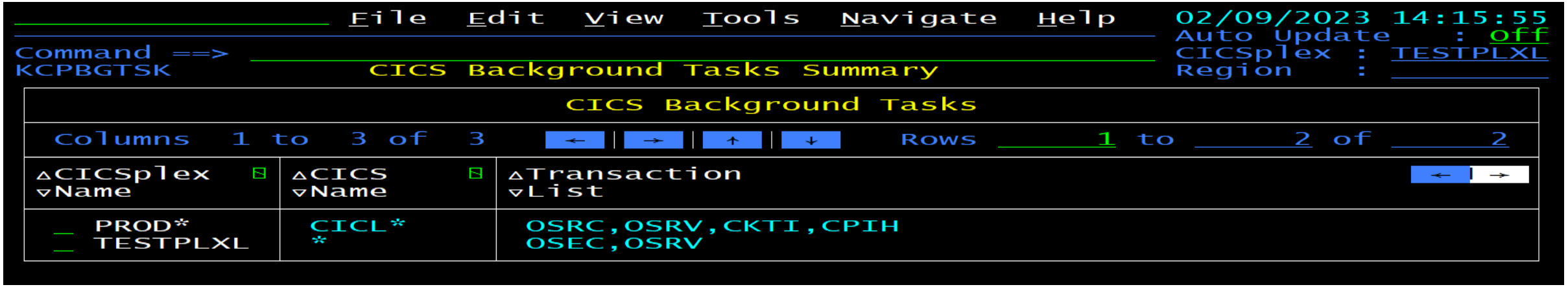
CICS metrics (from OMEGAMON CICS)

Db2 metrics (from OMEGAMON Db2)

OMEGAMON for CICS 5.6 FP2 enhancements

Background task identification

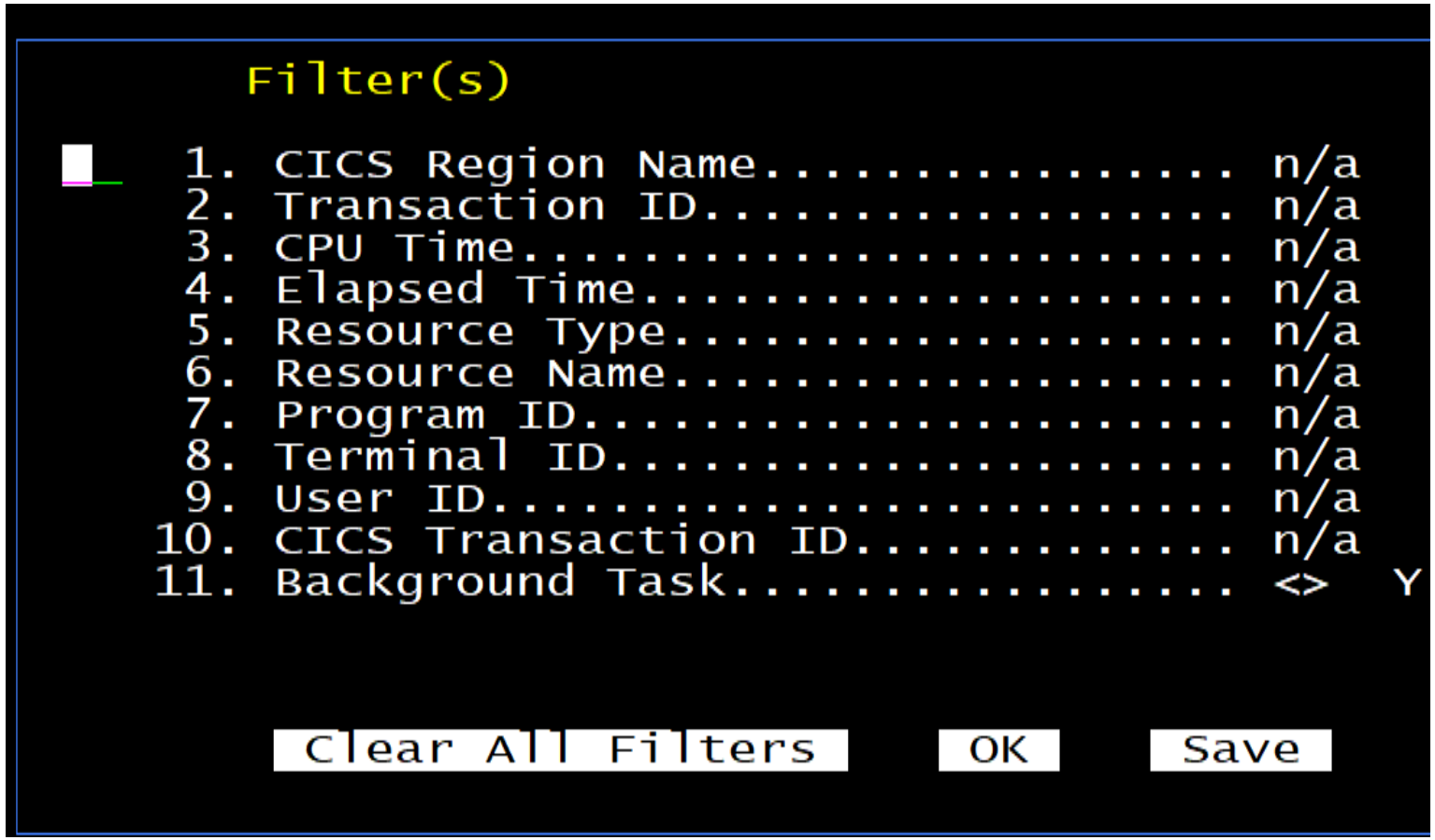
- Most CICS environments have transactions which run on a permanent basis. These may be MQ listener tasks, Pipeline listener task, or OMEGAMON tasks. These tasks are rarely of concern when looking at problems.
- OMEGAMON has added the capability (via the CICS control functions) to define tasks which will not be listed in the Tasks display or FIND ACTIVE displays.



Background task identification

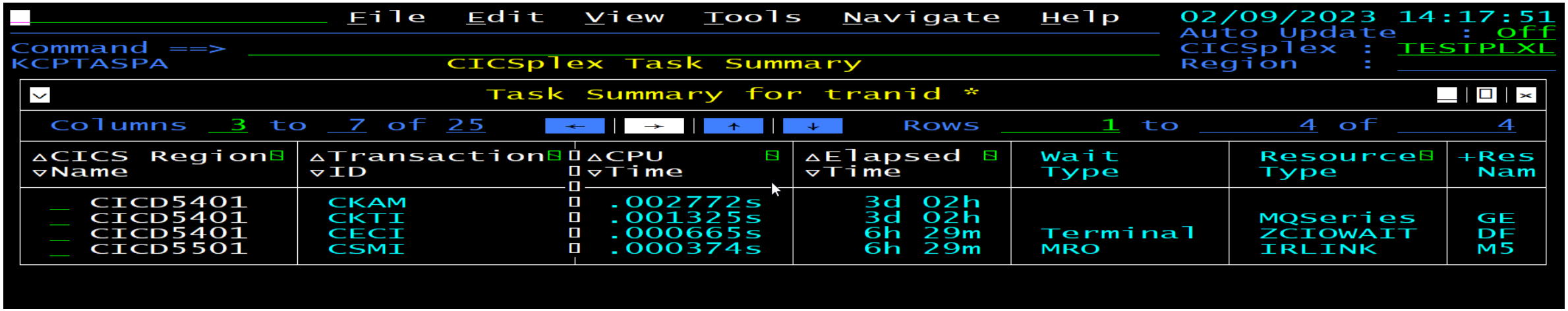
The background task list is checked when returning task data. The default behavior for the task displays is to not display tasks included in the list.

Enter Filter or press PF4 on those workspaces and you can see the filter is active. This can be removed to see all the tasks.

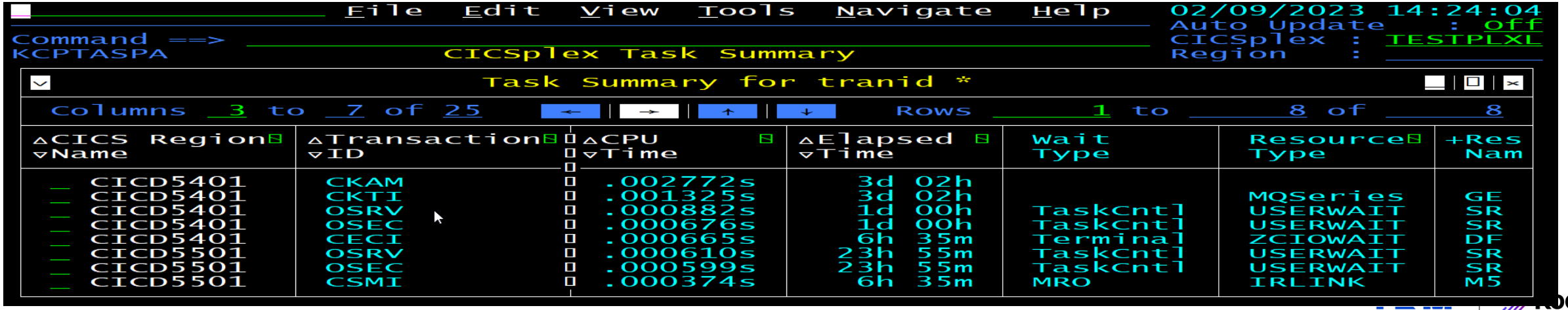


Background task identification

Using the command **FIND ACT *** will return all active tasks for the context in use.



Removing the filter shows the tasks again.

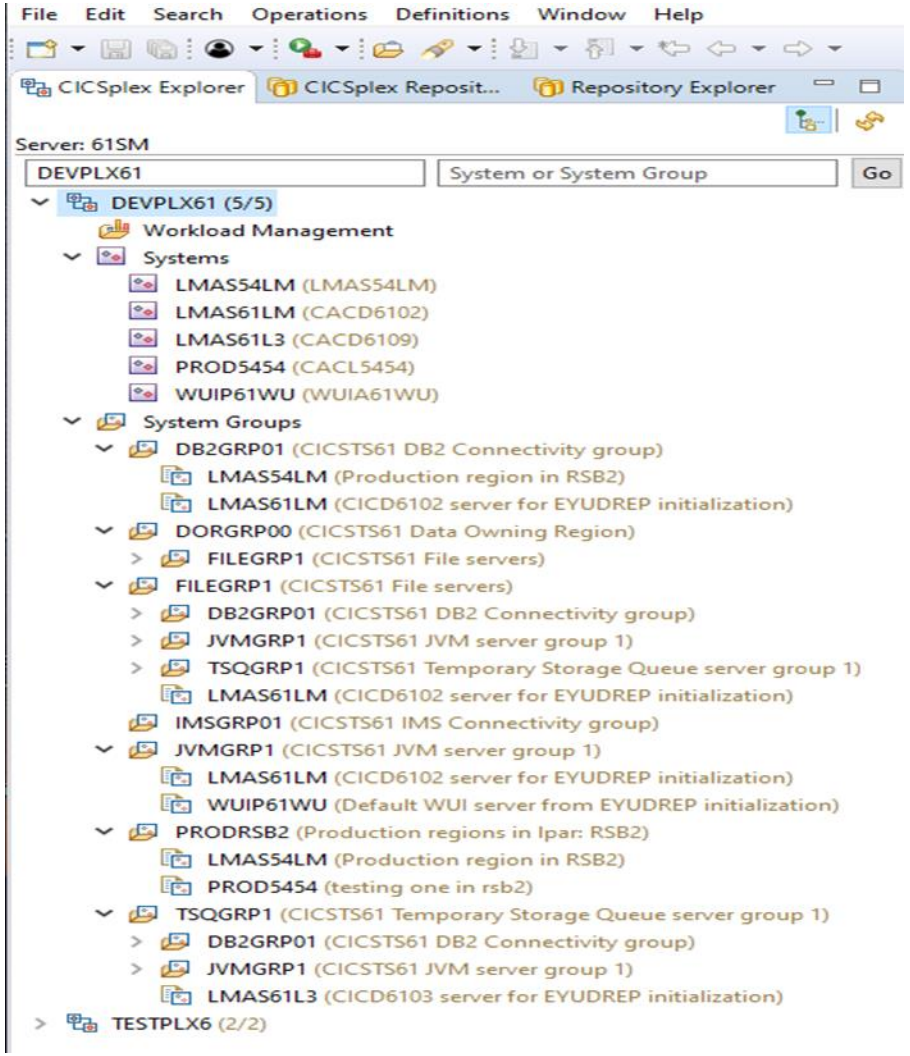


Importing of CP/SM system groups

A common feature in CP/SM is the ability to define CICS regions into CICS system groups.

Unlike a CICSplex, a CICS region can be in multiple groups.

Groups can also contain other groups.

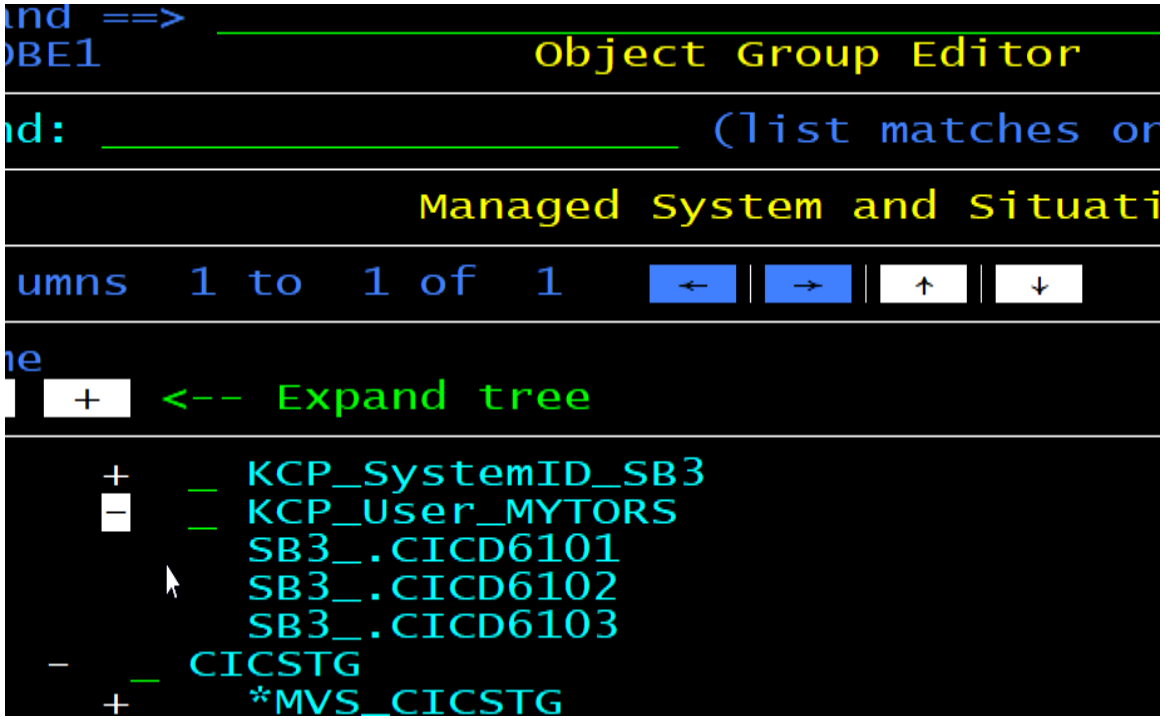


Importing of CP/SM user groups

OMEGAMON CICS also has a groups feature which works in connection with the **CONTEXT** and **FIND** commands. Users can define groups of regions by building a Managed Systems List (MSL) either in the TOM or TEP.

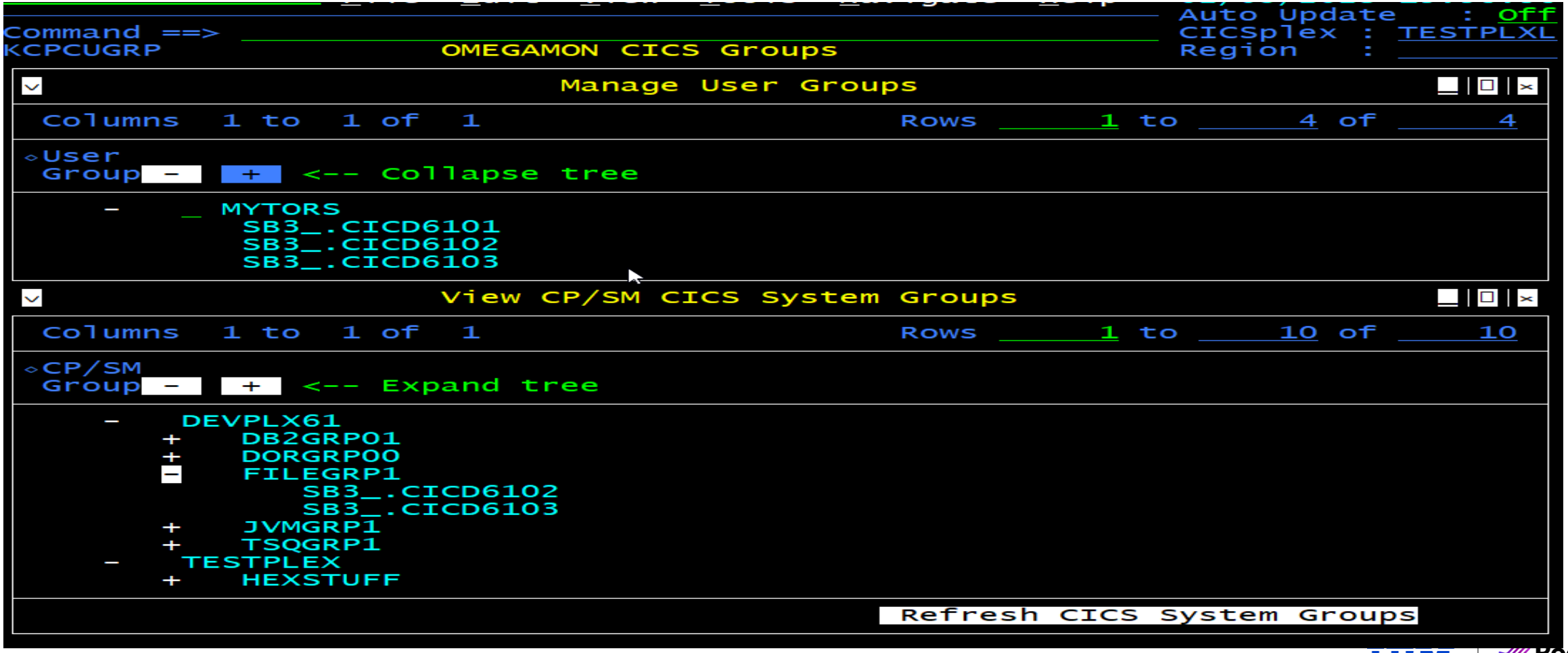
The name of the MSL must be in the format
KCP_User_*GRPNAME*
Where GRPNAME is upper case.

These groups can then be used in **CONTEXT** so see the selected regions and **FIND** to search those regions.



Importing of CP/SM system groups

The **GROUPS** command can be entered once a CICSplex is selected



Importing of CP/SM system groups

- In the previous **groups** display the top panel will show any OMEGAMON defined groups. If none exist an option to create one will be displayed. Here you enter the group name, and it will take you to a panel to select regions with the MSL name formatted correctly.

- The second panel will show any CP/SM CICS **system groups** which have been detected. When a region, which the CICSplex name comes from CP/SM, is started, the product will attempt to read the CICS system groups and regions which are active.

- OMEGAMON will then place them in an MSL named KCP_CSYS_*CICSPLEX_GRPNAME.* As this is done only when the region starts, If the groups are changed, you may wish to refresh the data from CPSM. In this case you can click the button at the bottom of the workspace.

Using the CONTEXT Command with groups

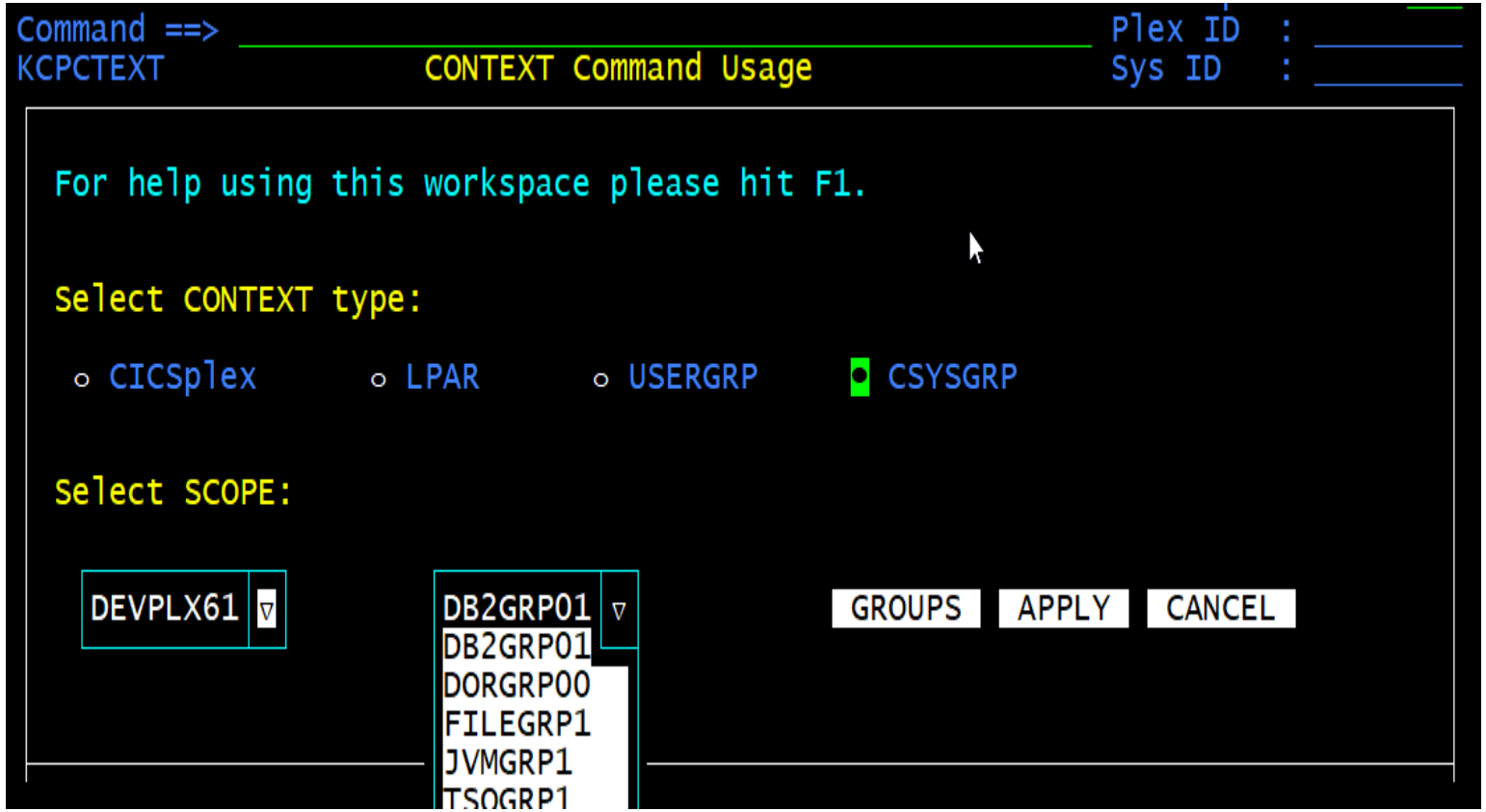
The **CONTEXT** command is used to select a grouping of regions

This could be one of:

- A CICSplex
- An LPAR
- A User Group

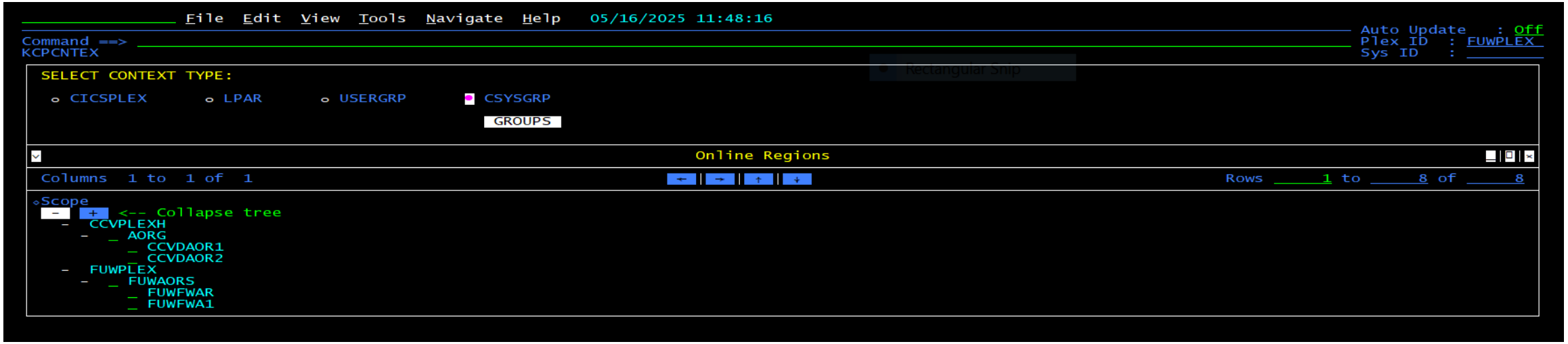
Now this is extended to allow a CICS system group. When this is used, the CICSplex and the group must be selected from the dropdown boxes

The GROUPS command can also be accessed from the push button on the screen.



Using the CONTEXT Command (v6.1)

The **CONTEXT** command is used to select a grouping of regions



Note: Only CICSPlexes that contain CP/SM System groups will be displayed.

OMEGAMON for CICS 5.6 FP3 enhancements

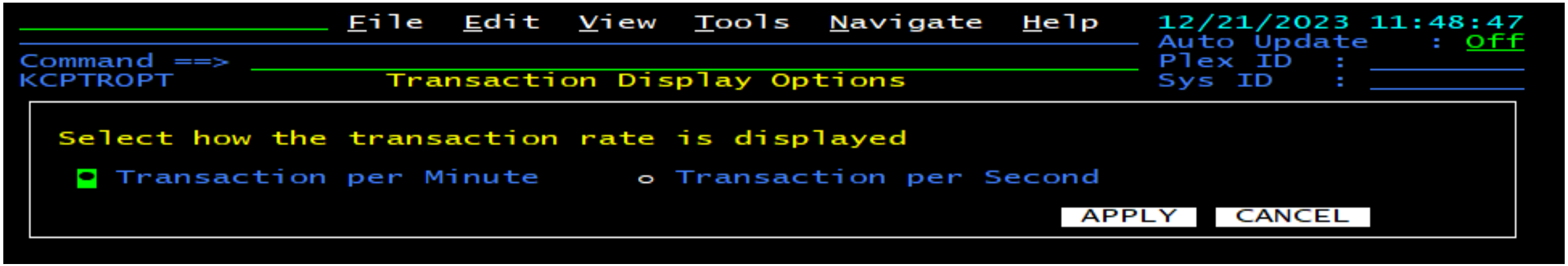
Transaction Rate options

Many customers have requested the transaction rate to be displayed in transactions per second.

This can now be achieved if all the regions monitored are at FP3 level or above.

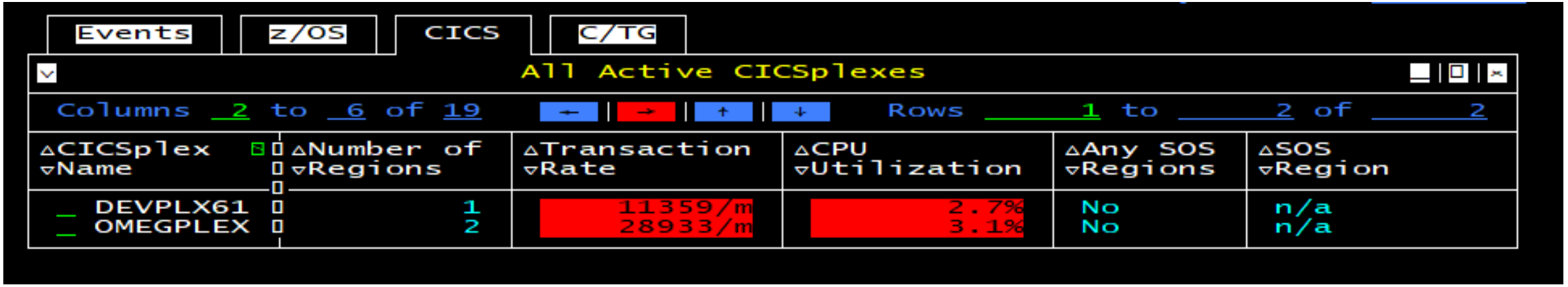
The new **Options** command gives the user the choice.

The default is per Minute.

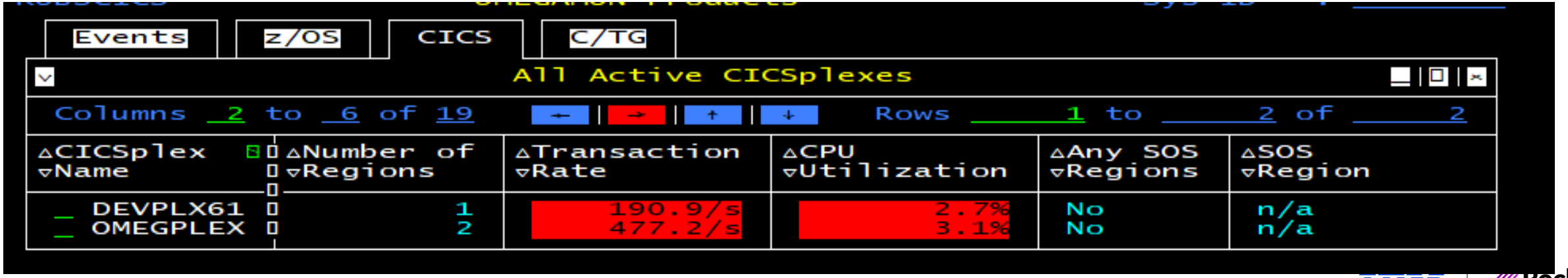


Transaction Rate options

The default Transaction rate per minute.



Transaction rate per second.



Transaction Rate options

The default Transaction rate is per minute.

To make the selection of seconds permanent add the following line to the user profile in the UKOBDATF dataset:

SET U_KCPTRANRATE = SECONDS

Program Tracking changes

Program tracking looks for any EXEC requests coming for outside of the current program.

If the request comes from another program, we attempt to locate that program and associate the request time from here against that.

When programs are LE enabled, many requests will come from CEECCICS. These requests are really part of the underlying application program and should be treated as such.

This will mean significantly less program switches leading to a reduced cost of using program tracking for LE programs.

OMEGAMON for CICS V6.1 (Base Release)

OMEGAMON AI Insights

Focus on customers needs

AI Insights Factory: Customers on board

Working Out of the box yet Customizable

Static VS Dynamic Baselining

Relevant alerts for critical events

Filtering for focused AI

Tailored set of KPIs

zIIP and IFL enabled

Total Cost of Ownership

SRE* – get alerts, quick analysis and dispatch to SMEs*

*SRE – Site Reliability Engineer
*SME – Subject Matter Expert

OMEGAMON AI Insights

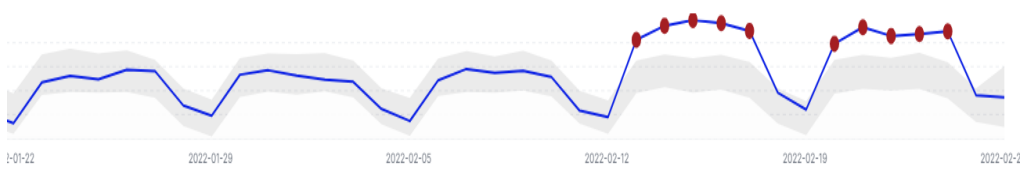
Context – OMEGAMON Situations VS AI Insights

OMEGAMON AI and Situations are complementary, and AI could help Situations be more dynamic...

OMEGAMON AI Insights

Dynamic baselines
Complex problems

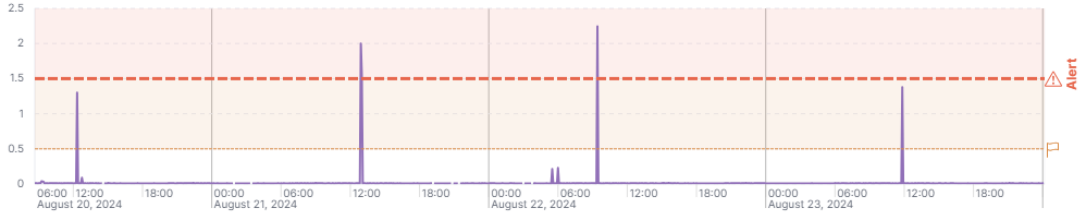
Curated
(CPU Time, Network Segments, CICS Response Time, …)



OMEGAMON Situations

Static thresholds
Domain rule based

Every other metrics



Use Case #1 – Analysis of Transaction Performance at Region Level

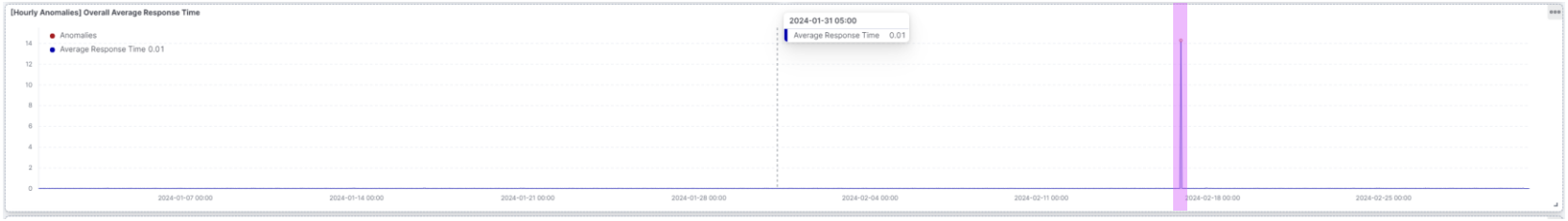
Alerting on significant divergence of Transaction Response Time to detect potential resource constraints ensuring performance and protection of transactional workload.

Context: CICS customers generally have hundreds of CICS regions. The workload on any specific region tends to support a given application. While the region activity could be broken down further to transaction level, at the application level, this adds limited value for a significant overhead. Therefore, applying Machine Learning to the CICS region level metrics is more appropriate.

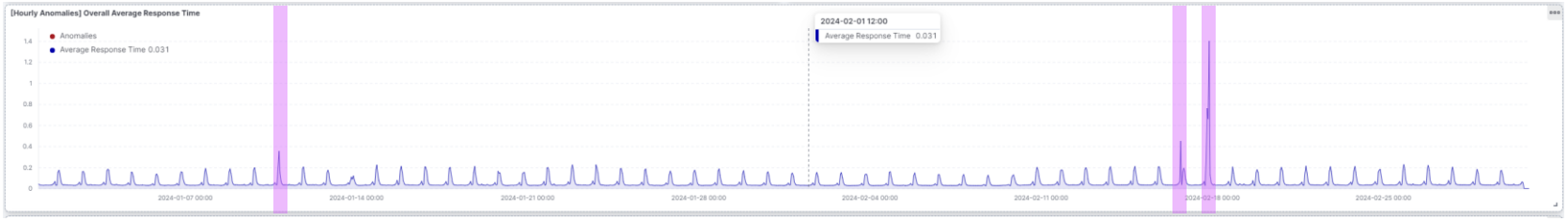
Use Case #1 – Analysis of Transaction Response Time at Region Level

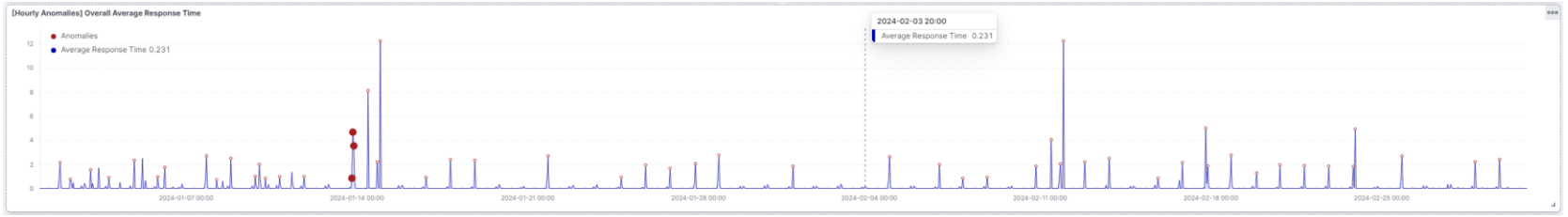
Dynamic thresholding to detect outliers on transactional response time of regions timeseries.

Active
Response time stable
Very high throughput
Very quick response time



Inactive
Response time spiky
High to low throughput
Quick to slow response time





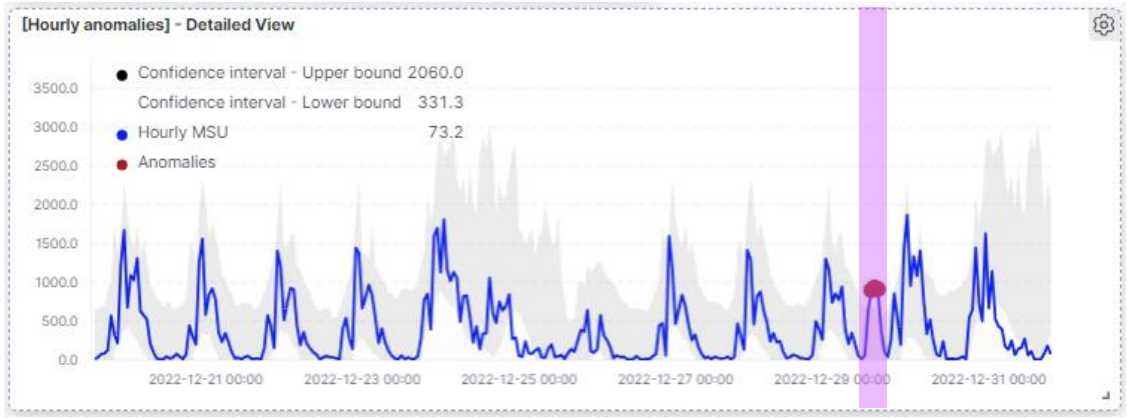
Very Inactive
Response time very spiky
Low discontinuous throughput
Slow response time
(Ignored by default)

Use Case #2 – Analysis of CPU Consumption at Region Level

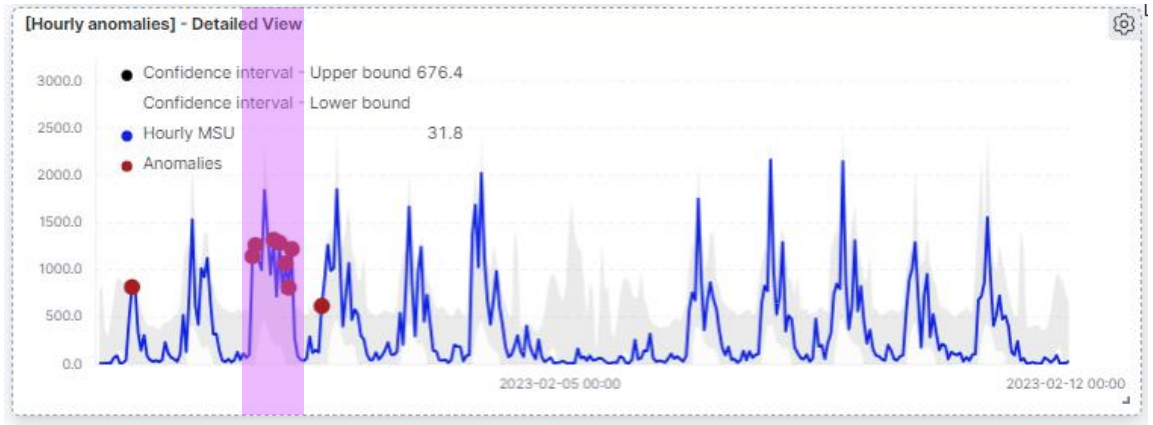
Alerting on significant divergence of CPU Time to detect significant deviation ensuring performance and protection of transactional workload.

Context: CICS customers generally have hundreds of CICS regions. The workload on any specific region tends to support a given application. While the activity of a region may vary over time, it should remain stable and seasonal to ensure the proper performance of the region and control associated costs. Therefore, applying Machine Learning to the CICS region level metrics is appropriate.

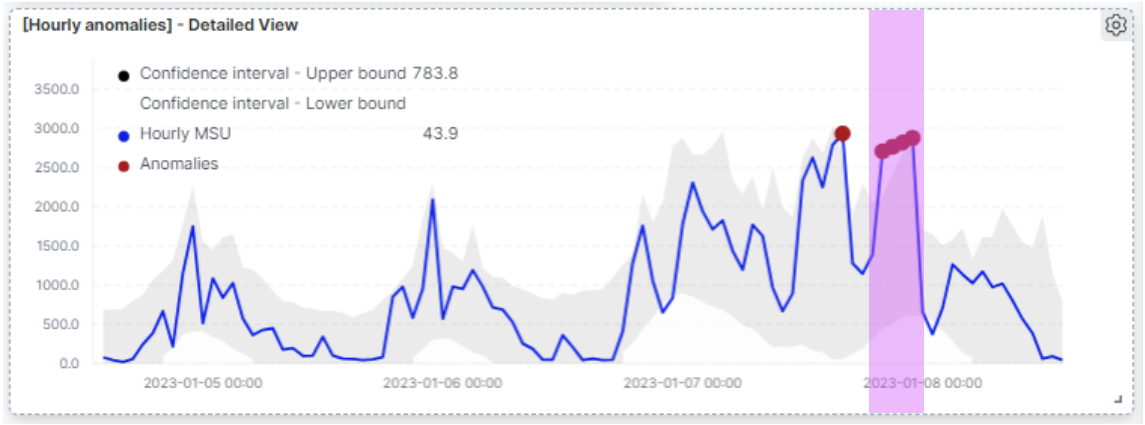
Use Case #2 – Analysis of CPU Time at Region Level



Spike outside of season



Broken Patterns



Consecutive low anomalies

What is YOUR definition of an anomaly? How would you choose which workload or region to run ML on? Does any slight divergence count? Any day of the week?

Task History Improvements

Task History was previously limited to a maximum dataset size of 4GB per region.

This allowed for a maximum of approximately 4.5 Million transactions per region.

This limit is now removed and extended Linear datasets are now supported. The required 4K CI size results in a maximum potential dataset of 16TB.

The format of the file has changed, A file which was previously used with an earlier version of OMEGAMON will be reformatted upon first use with V610.

There is no need to change the dataset, unless a larger size is required.

Task History Improvements

Task History can now be paused.

Pausing task history allows viewing the task history data while no new tasks are collected.

This can be used with a small file or dataspace, allowing some transactions to be collected and then pause the collection to allow viewing the detail data, such as Application Trace, without fear of the datastore wrapping and losing the information.

Task history can be configured to start in a paused state.

Task History Improvements

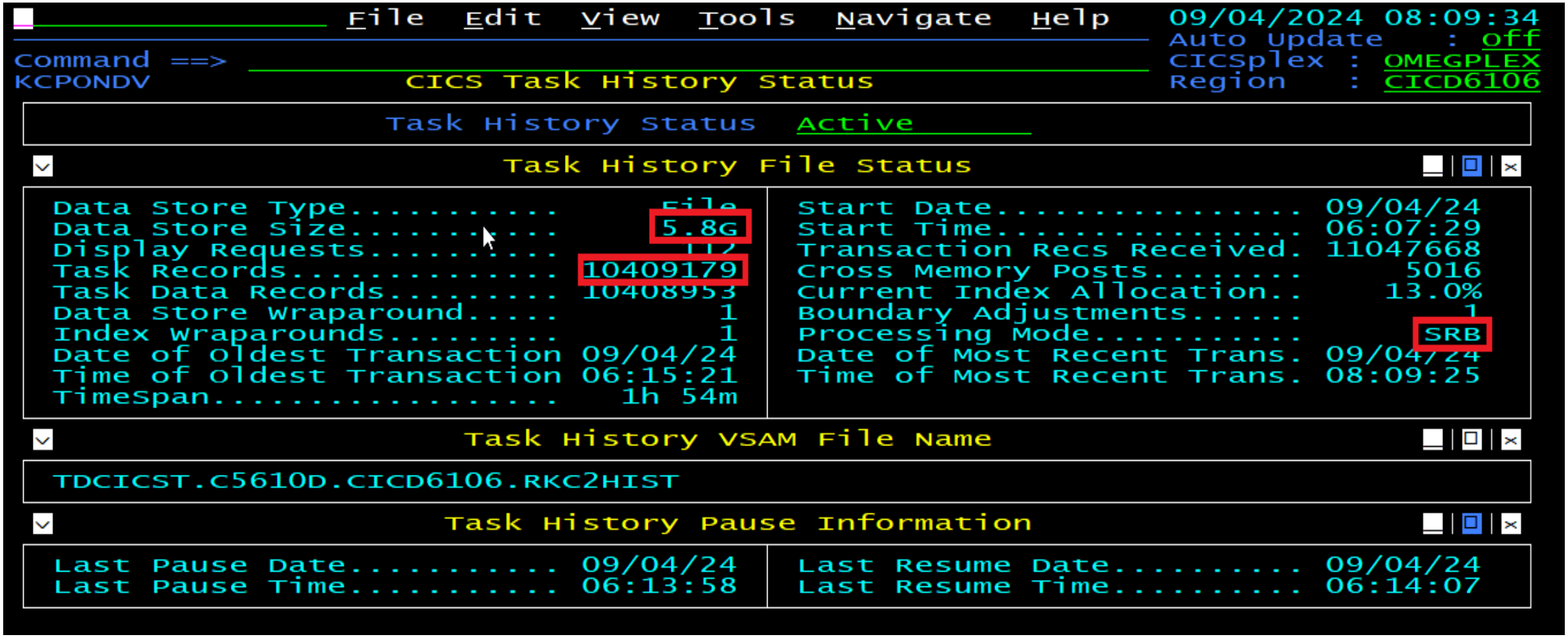
Most of Task History processing will now use zIIP processors where available.

The collection of task data and the processing of requests to view task history data will now be processed on zIIP processors.

This applies to both Dataspace and file-based task history.

Service Level Analysis data collection, which previously ran on general purpose processors is now also zIIP eligible.

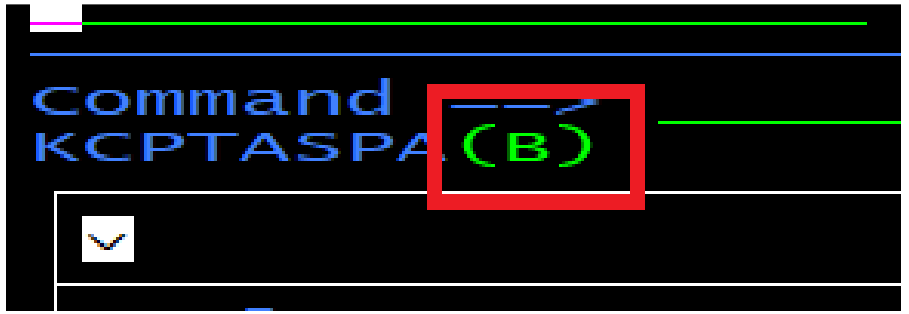
Task History Improvements



Bookmarking

Some OMEGAMON workspaces, which are used frequently, can now be "**Bookmarked".**

When a screen contains "**(B)**" following the workspace name, it is eligible for bookmarking.



This indicates that users can use the command **BOOK** and give the workspace a unique name.

OMEGAMON CICS allows any **FIND** command display to be bookmarked.

Context is saved as part of the Bookmark.

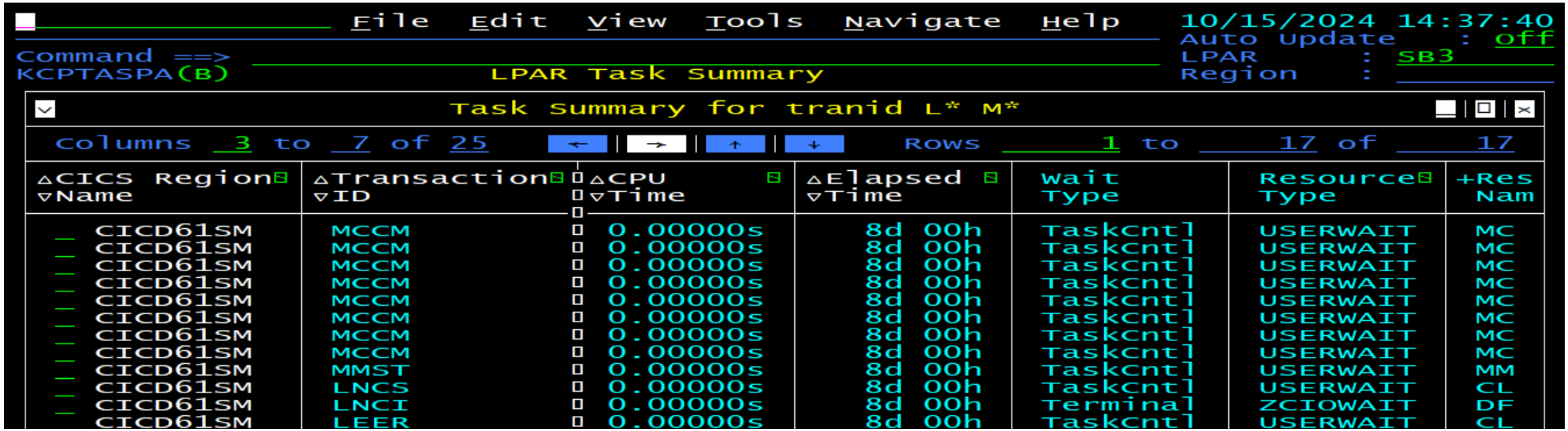
These Bookmarks can be saved to a user's profile.

The **UNBOOK** command can be used to remove unwanted bookmarks.

Bookmarking

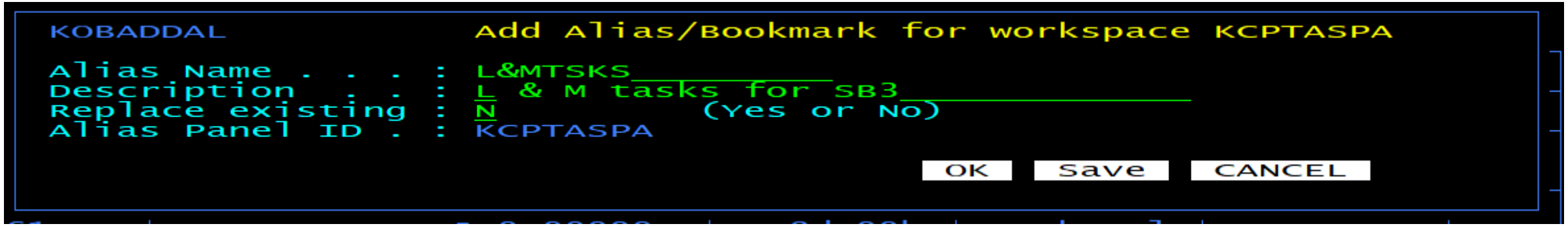
For example, a find for all tasks beginning with M or L across a specific LPAR.

- Type **CONTEXT LPAR *smfid***
- Type **FIND ACT L* M***

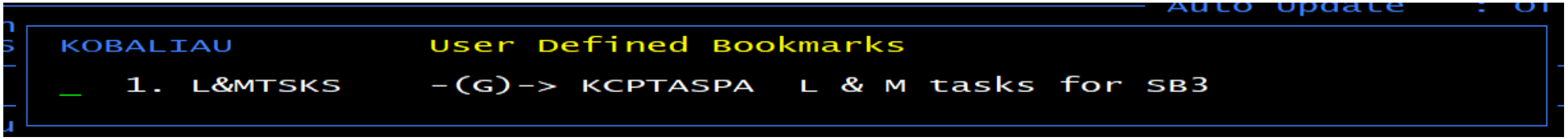


Bookmarking

- Type **Book** and fill in a name and description.

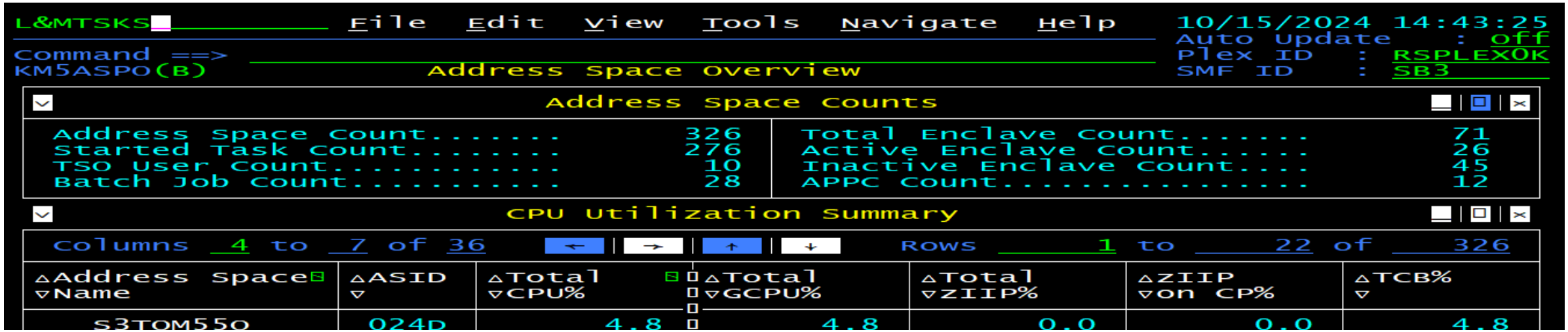


- Click on **OK** or **SAVE** to save to a user profile for later sessions.
- From any screen now user option **V**iew then **U**ser Bookmarks to see defined user bookmarks.

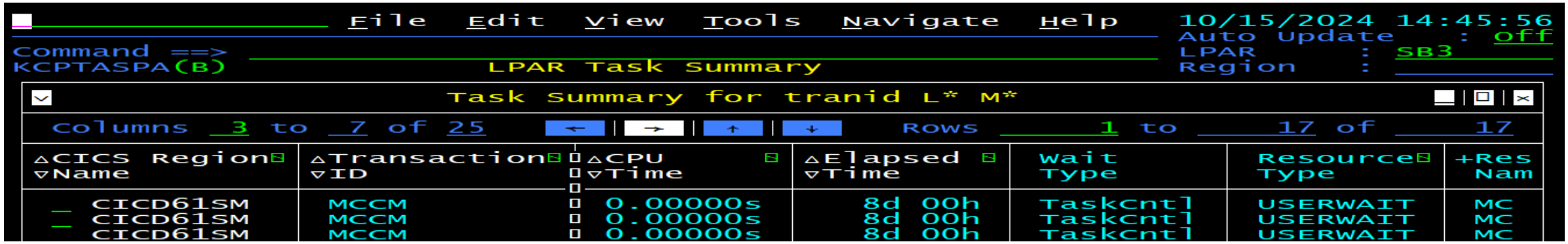


Bookmarking

- From any workspace use the bookmark.



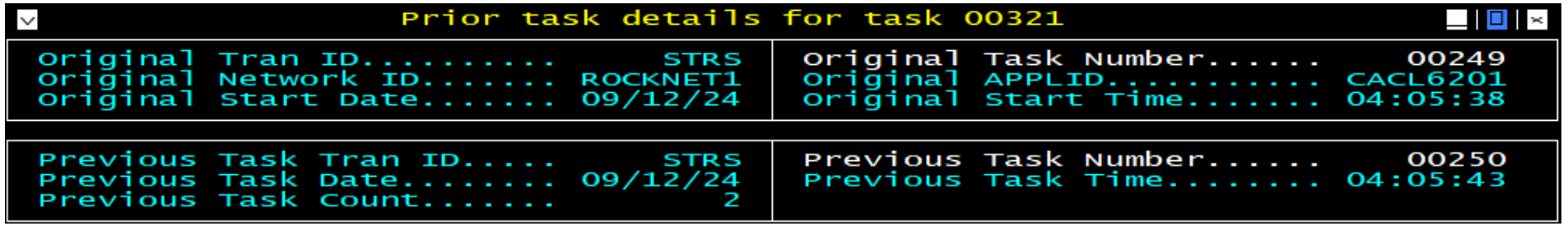
This will take you to the bookmarked workspace.



Prior Task details

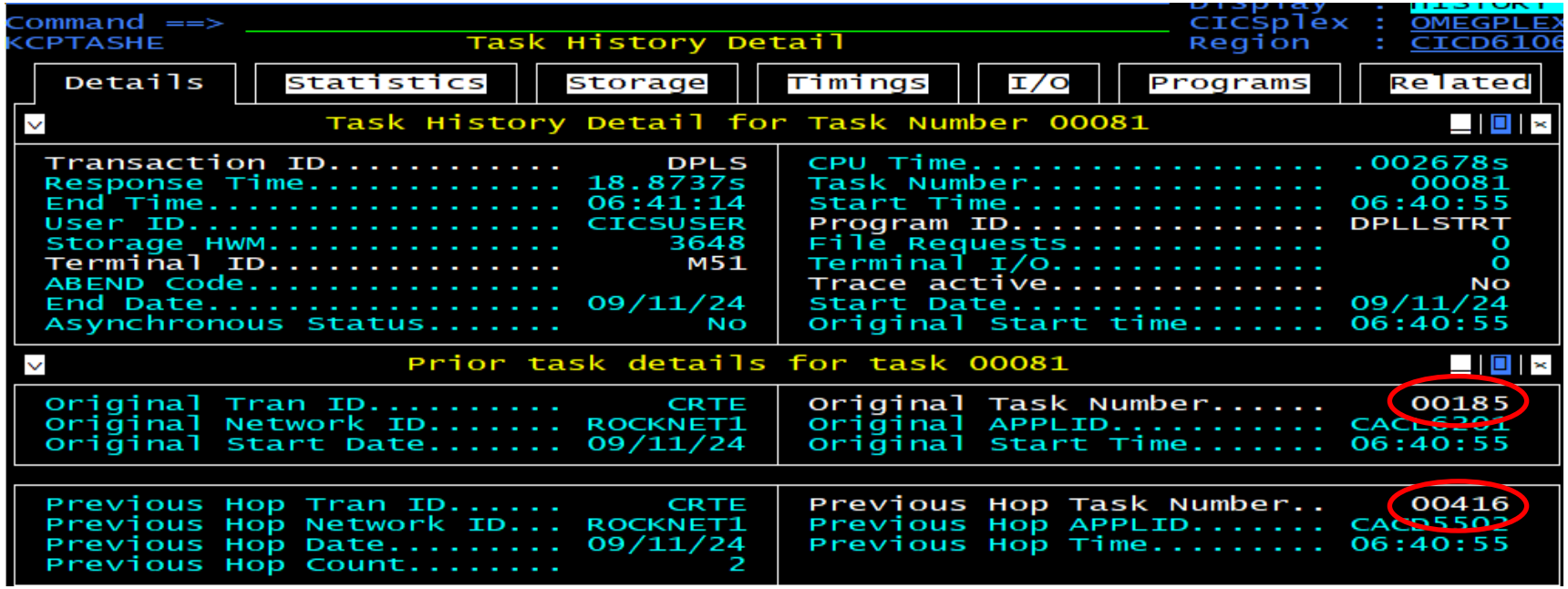
Previous Transaction information is now available for both active and historical tasks which is split into three parts:

- Origin data – a task which was identified as a new point of origin of this work request within CICS.
- Previous hop data – a task which started current task from another CICS region.
- Previous task data – a task which started current task within the same CICS region.



Prior Task details

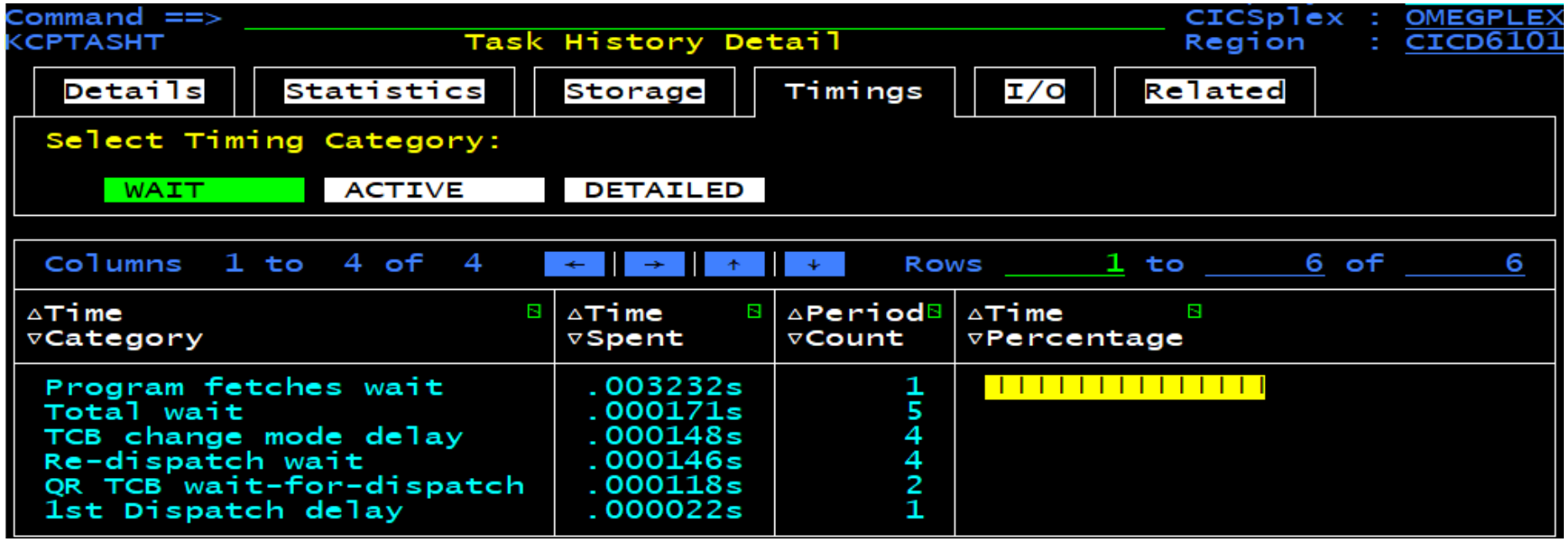
- Data is available on the task Details tab for both history and active tasks, as well as Related tab for history tasks.
- User can navigate to the previous transaction by pressing on task number regardless of current task state and which CICSplex task originated from.



Transaction timings display

Timings tab is now split into three panels:

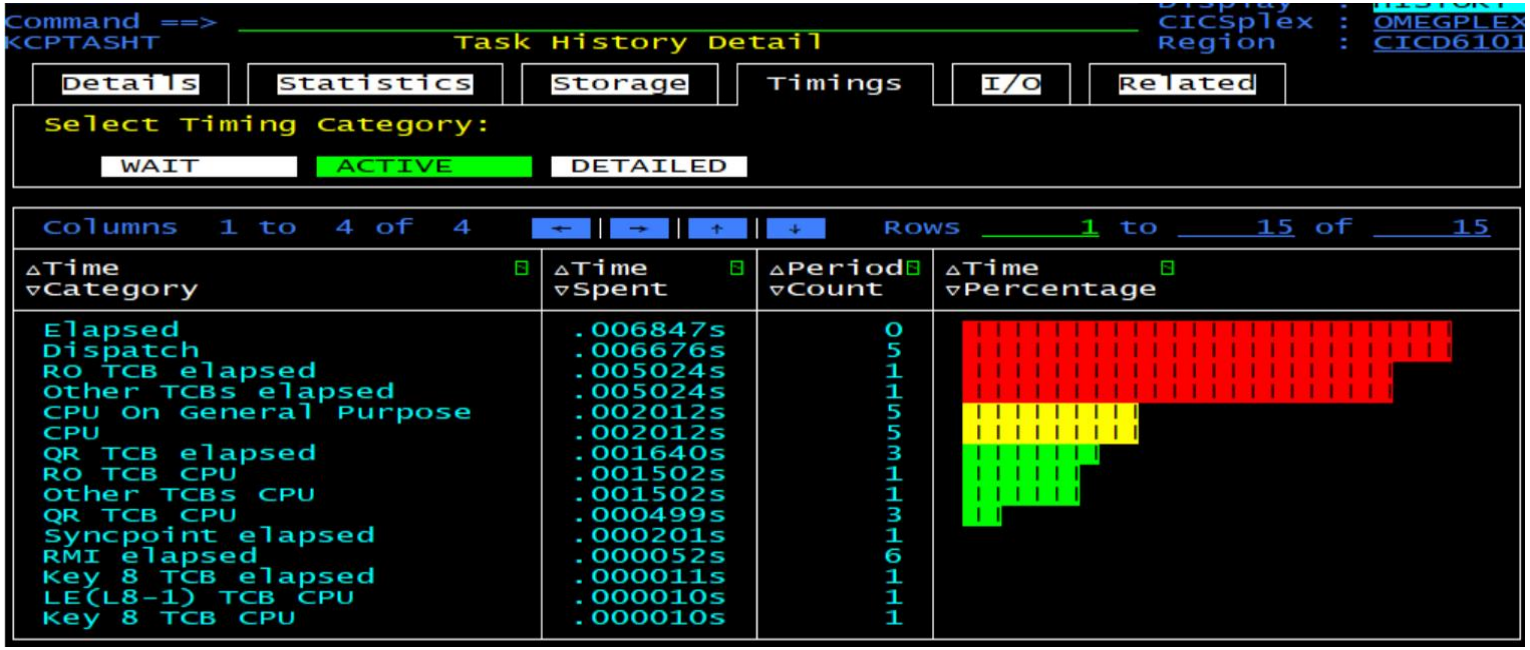
- WAIT – values representing where task was idle.
- ACTIVE – breakdown of task's execution times.
- DETAILED lists all the timing categories tracked by OMEGAMON.



Transaction timings display

New table attribute additions:

- Period Count – number of measurement periods during which the Time Spent value was accumulated in the specified category.
- Time Percentage – percentage of the overall task's response time where task spent in specified category.



OMEGAMON for CICS 6.1 FP1 enhancements

Current Average Response Times

OMEGAMON CICS has typically calculated response time at the end of SLA intervals. This meant that the calculated response time would not change for a period of time (1 or 5 minutes).

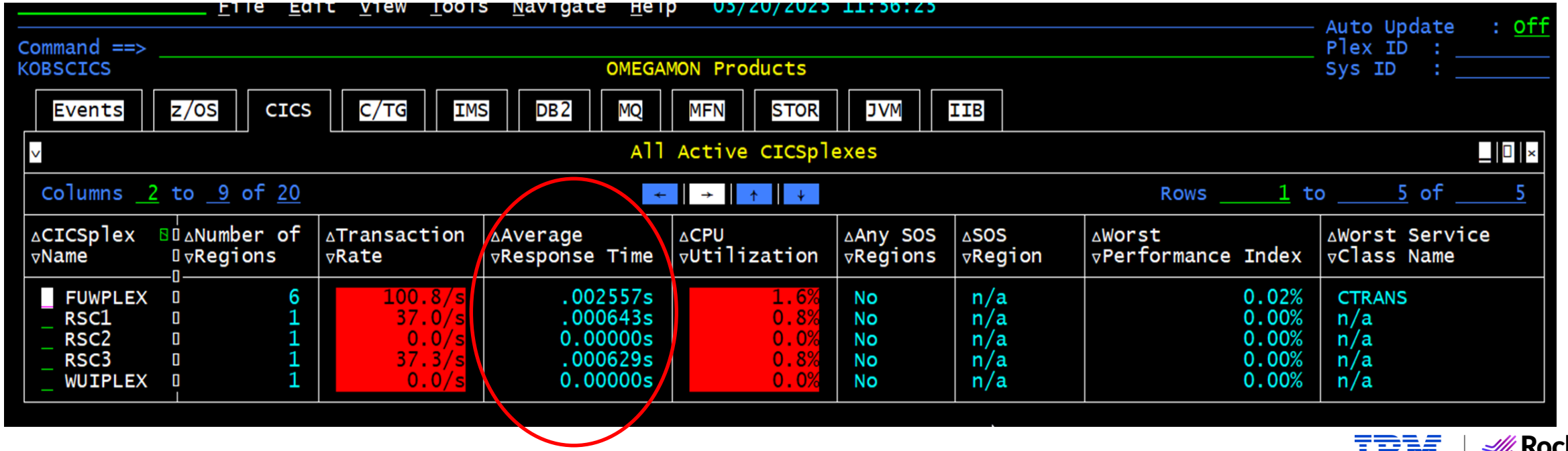
The metrics displayed at the CICSplex, and Region Summary panels is primarily data which is fluid and potentially changing on every refresh.

The response time is now calculated independently from the SLA interval for both Region overview and CICSplex overview.

In CICS regions where OMEGAMON is initialized the transaction rate will now be calculated from the transaction end rate rather than the attach count as it was previously.

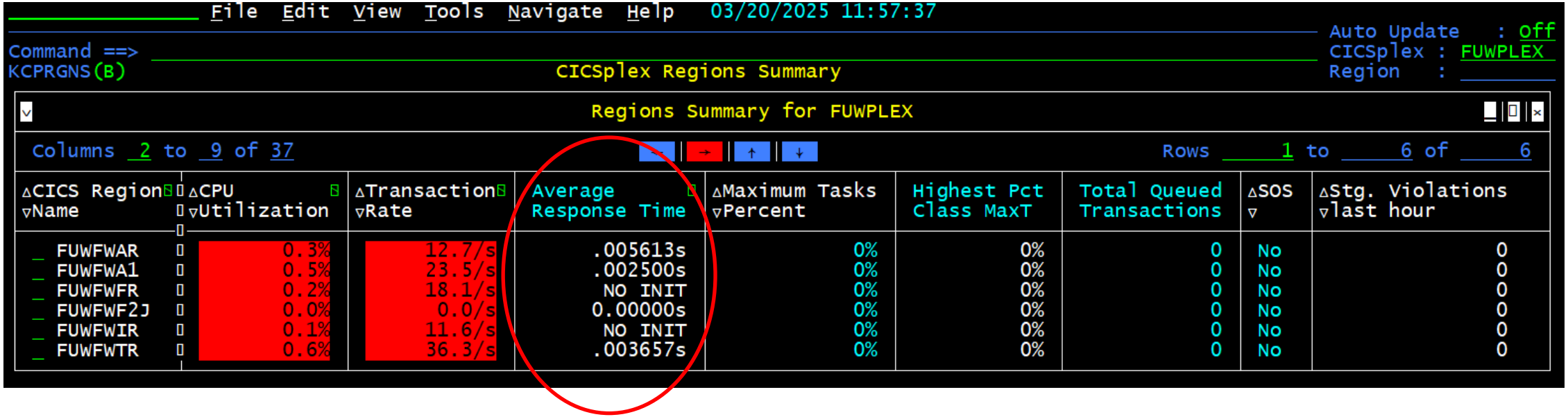
Current Average Response Times

- For the CICSplex summary the response time will be calculated based upon the transactions which occurred in regions where OMEGAMON is initialized.
- The transaction rate may include regions which do not have OMEGAMON installed. This will not affect the average response time.



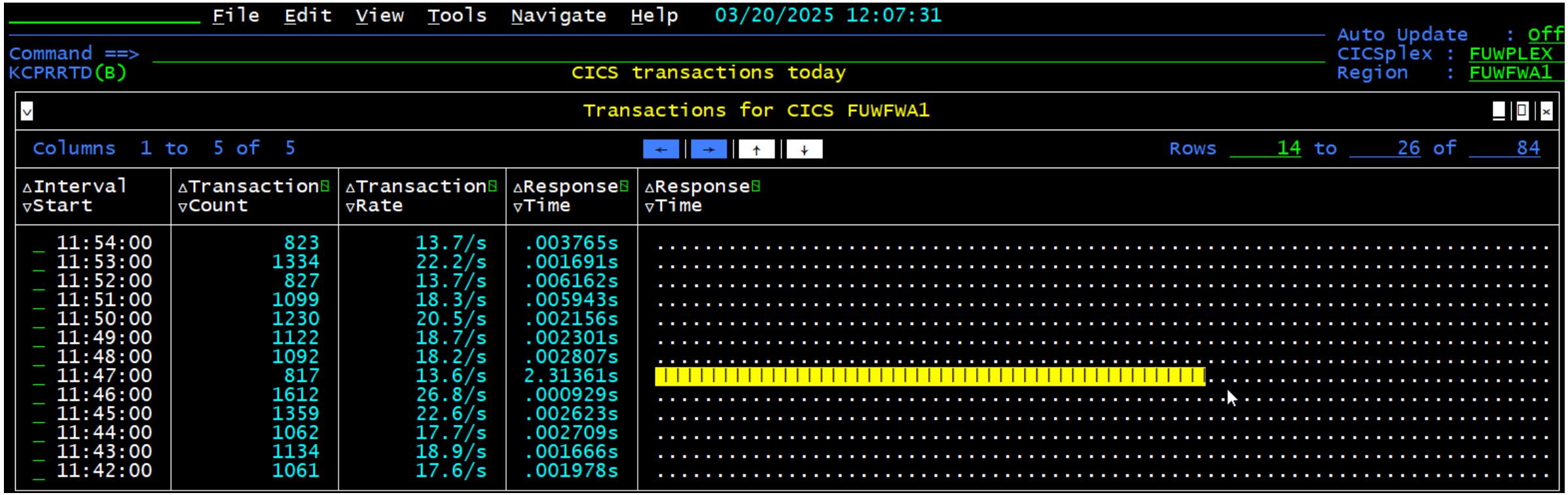
Current Average Response Times

- For each CICS region, where OMEGAMON is installed, The transaction rate and average response time will be calculated from the start of the prior minute.
- If OMEGAMON is not initialized in a region, the response time will indicate **NO INIT**.
- If the OMEGAMON level in a CICS region is below what is required to produce response time data, the column will indicate **VERSION**.



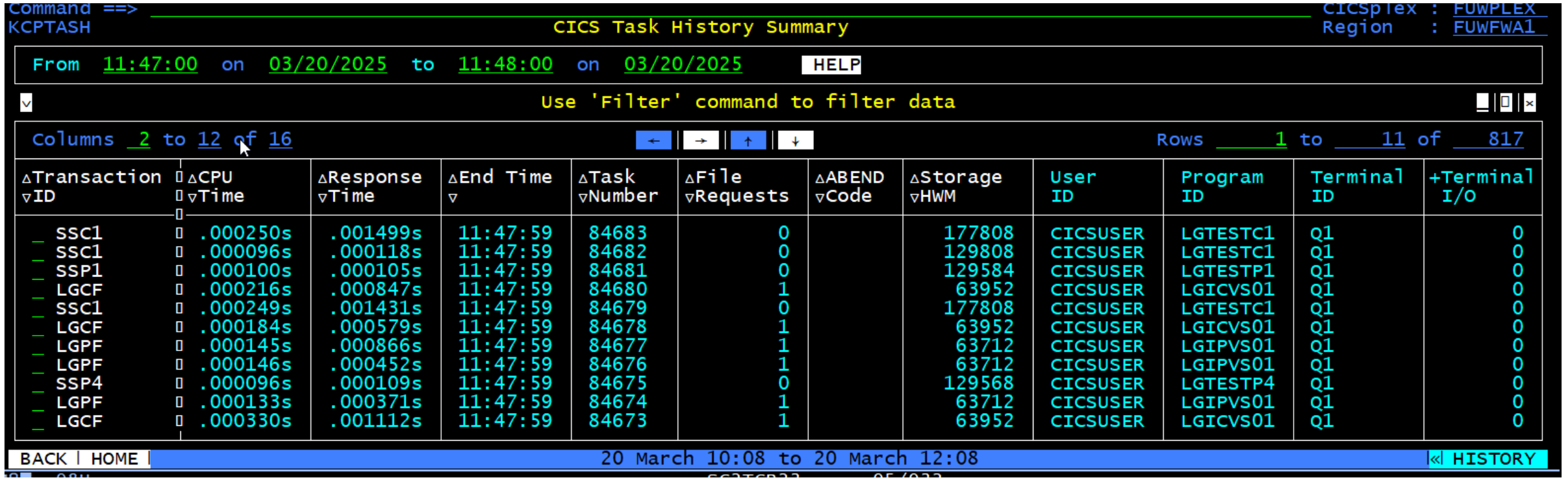
Current Average Response Times

- Putting the cursor on the response time and hitting Enter will take you to the CICS transactions today workspace.



Current Average Response Times

- Selecting an interval will show the CICS Task History Summary, filtered for the transactions which occurred in the selected minute.



▵Transaction ▿ID	▵CPU ▿Time	▵Response ▿Time	▵End Time ▿	▵Task ▿Number	▵File ▿Requests	▵ABEND ▿Code	▵Storage ▿HWM	User ID	Program ID	Terminal ID	+Terminal I/O
SSC1	.000250s	.001499s	11:47:59	84683	0		177808	CICSUSER	LGTESTC1	Q1	0
SSC1	.000096s	.000118s	11:47:59	84682	0		129808	CICSUSER	LGTESTC1	Q1	0
SSP1	.000100s	.000105s	11:47:59	84681	0		129584	CICSUSER	LGTESTP1	Q1	0
LGCF	.000216s	.000847s	11:47:59	84680	1		63952	CICSUSER	LGICVS01	Q1	0
SSC1	.000249s	.001431s	11:47:59	84679	0		177808	CICSUSER	LGTESTC1	Q1	0
LGCF	.000184s	.000579s	11:47:59	84678	1		63952	CICSUSER	LGICVS01	Q1	0
LGPF	.000145s	.000866s	11:47:59	84677	1		63712	CICSUSER	LGIPVS01	Q1	0
LGPF	.000146s	.000452s	11:47:59	84676	1		63712	CICSUSER	LGIPVS01	Q1	0
SSP4	.000096s	.000109s	11:47:59	84675	0		129568	CICSUSER	LGTESTP4	Q1	0
LGPF	.000133s	.000371s	11:47:59	84674	1		63712	CICSUSER	LGIPVS01	Q1	0
LGCF	.000330s	.001112s	11:47:59	84673	1		63952	CICSUSER	LGICVS01	Q1	0

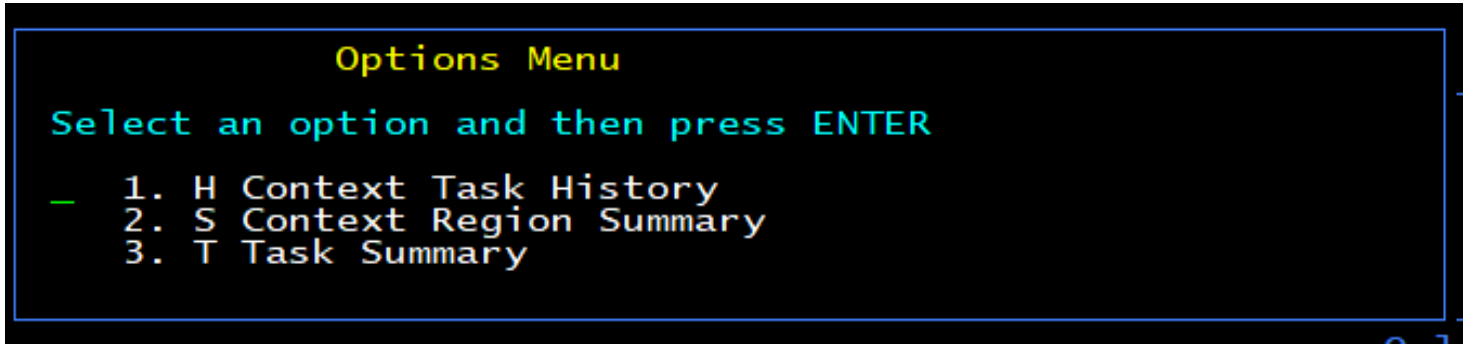
Improved Context Command

- Entering **C** next to a CICSplex will now display the CONTEXT menu.
- This displays all CICSplexes with active regions.
- The context type can be changed to select CICSplex, LPAR, user group, or CP/SM system groups

Improved Context Command

At each level there are 3 options

1. **H - Context task history**
2. **S - Context Region Summary**
3. **T - Task Summary**

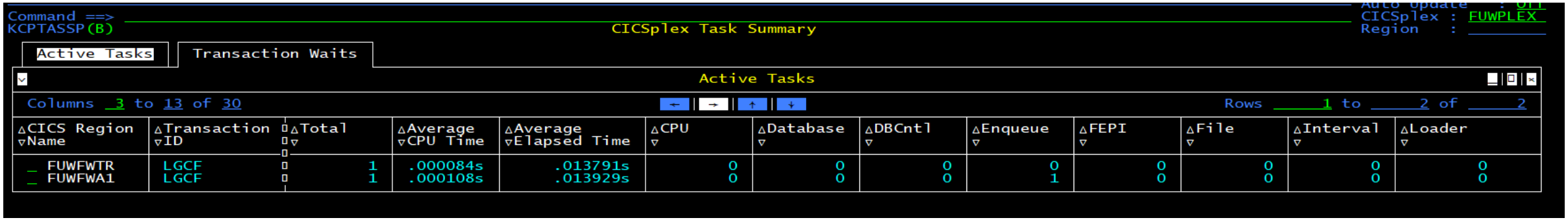


In each case the regions or scope selected to form the display will be based upon the level chosen. When a group of regions are selected for Task History. That History will be for the 1 minute similar to CICSplex task history.

Or Just double click the region or CICSPlex name for a “**S**”.

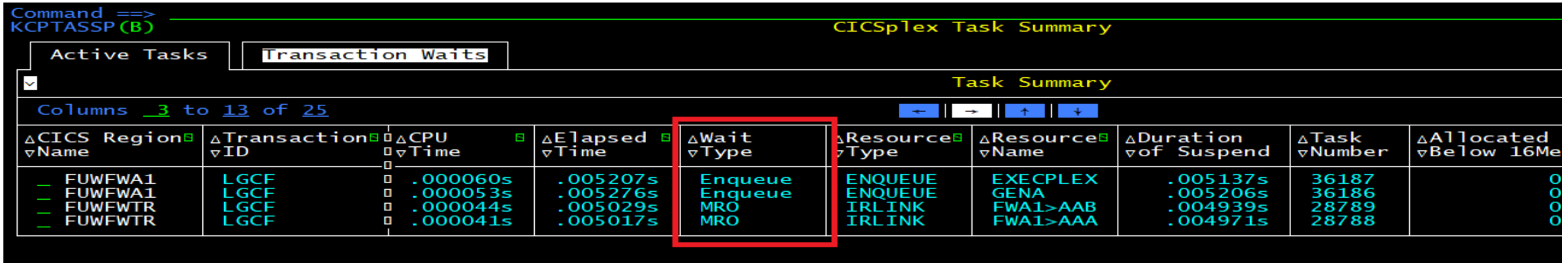
Summary of Transaction Waits

- Under the task display, there is now a **Transaction Waits** tab.
- This displays a summary by region and transaction of what tasks are currently waiting for.



CICS Region Name	Transaction ID	Total	Average CPU Time	Average Elapsed Time	CPU	Database	DBCntl	Enqueue	FEPI	File	Interval	Loader
FUWFWTR	LGCF	1	.000084s	.013791s	0	0	0	0	0	0	0	0
FUWFWA1	LGCF	1	.000108s	.013929s	0	0	0	1	0	0	0	0

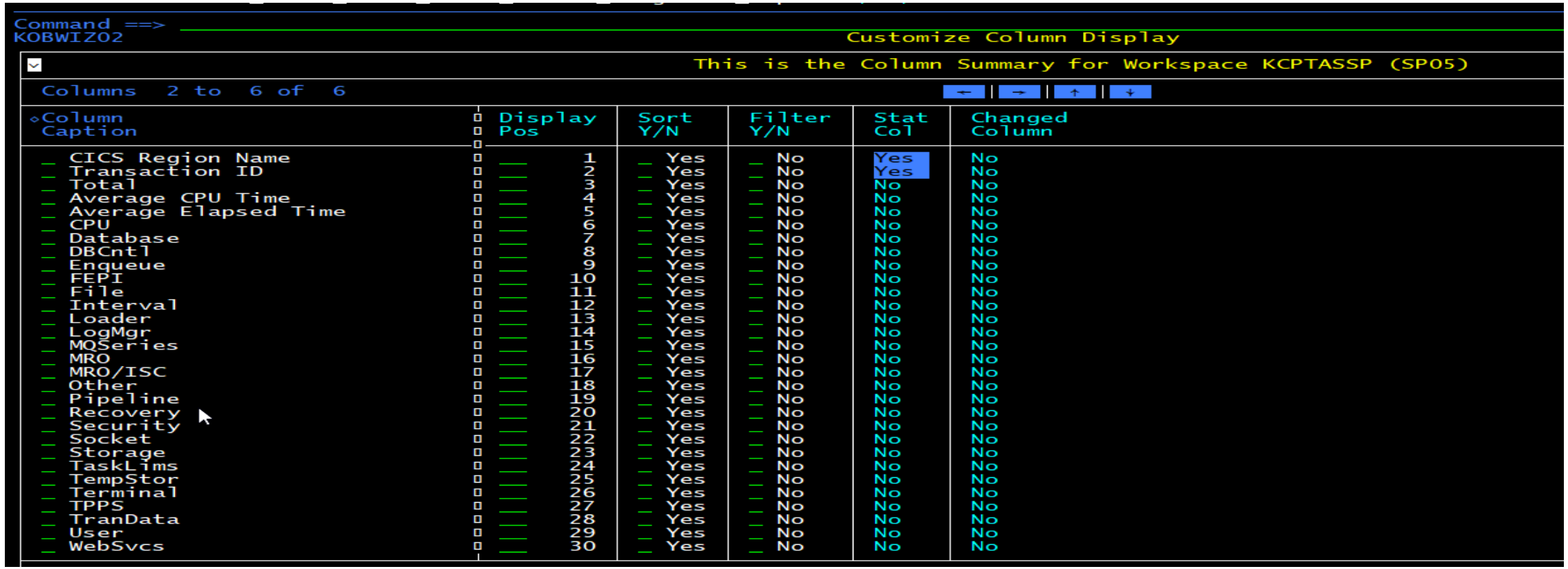
- The classification is based upon the wait type column in the task display.



CICS Region Name	Transaction ID	CPU Time	Elapsed Time	Wait Type	Resource Type	Resource Name	Duration of Suspend	Task Number	Allocated Below 16Me
FUWFWA1	LGCF	.000060s	.005207s	Enqueue	ENQUEUE	EXECPLEX	.005137s	36187	0
FUWFWA1	LGCF	.000053s	.005276s	Enqueue	ENQUEUE	GENA	.005206s	36186	0
FUWFWTR	LGCF	.000044s	.005029s	MRO	IRLINK	FWA1>AAB	.004939s	28789	0
FUWFWTR	LGCF	.000041s	.005017s	MRO	IRLINK	FWA1>AAA	.004971s	28788	0

Current Average Response Times

- Hit F9 to see the following is the list of columns showing the wait types summarized.



Documentation details

- Updated documentation can be found here: https://www.ibm.com/docs/en/om-cics/5.6.0?topic=whats-new-in-v560
- A blog entry can be found here: https://community.ibm.com/community/user/ibmz-and-linuxone/blogs/ezriel-gross/2022/06/17/ibm-z-omegamon-for-cics-v560
- A blog entry relating to CICS-DB2 linking can be found here: https://community.ibm.com/community/user/ibmz-and-linuxone/blogs/paul-kenney/2022/10/28/navigating-between-cics-history-and-db2-history
- A blog entry for Fixpack 2 features is here: https://community.ibm.com/community/user/ibmz-and-linuxone/blogs/germanas-samrickis/2023/02/23/ibm-z-omegamon-for-cics-v560-fix-pack-2
- Updated documentation can be found here: https://www.ibm.com/docs/en/omegamon-for-cics/6.1.0

Thank you.

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