

# CA Mainframe Application Tuner

## Release Notes

Version 9.0.00



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## CA Technologies Product References

This document references the following CA Technologies products:

- CA Mainframe Application Tuner (CA MAT)
- CA Mainframe Software Manager (CA MSM)
- Performance Management Assistant (PMA)

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For your convenience, CA Technologies provides one site where you can access the information that you need for your Home Office, Small Business, and Enterprise CA Technologies products. At <http://ca.com/support>, you can access the following resources:

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# Chapter 1: New Features

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This section contains the following topics:

[CA Mainframe Software Manager](#) (see page 7)

[Graphical User Interface](#) (see page 7)

## CA Mainframe Software Manager

CA MSM is an application that simplifies and unifies the management of CA Technologies mainframe products on z/OS systems.

CA MSM provides services that make it easier for you to do the following:

- Acquire, install, deploy, and configure products
- Automatically obtain and apply maintenance

These services enable you to easily manage your software based on industry accepted best practices. A web-based interface makes the look and feel of the environment friendly and familiar, enabling you to install and maintain your products faster and with less chance of error.

You can acquire CA MSM from the CA Support website.

**Note:** For more information, see your product's installation instructions and the CA Mainframe Software Manager online help.

## Graphical User Interface

CA Mainframe Application Tuner provides an eclipse based, graphical user interface (GUI) that is provided as a Microsoft Windows application and can also be integrated with similar graphical user interfaces of SymDump and InterTest to form a user interface for fault analysis of systems. The GUI reduces your learning curve and simplifies your training requirements.

### Main Window

When you first open the new GUI, you will see the CA Mainframe Application Tuner main window.

This window is composed of several views that provide all the functions you need to use your programs.

A view is a visual component within the main window. It is typically used to navigate a hierarchy of information or display properties for a program listing. Modifications made in a view are generally done with dialogs.

Usually, only one instance of a particular type of view may exist within the main window. Views might appear by themselves or stacked with other views in a tabbed notebook. To activate one of these views, click its tab. Only one view is active at one time. The active view is the one whose tab is highlighted.

You can change the default window layout by opening views, closing views, or docking views in different positions.

## View Types

Use the views available on the CA Mainframe Application Tuner main window to navigate through a set of resources such as monitor definitions, monitor runs and analysis data. CA Mainframe Application Tuner provides the following views:

- Monitor Tree
- Monitor History
- Analysis
- Cached Analysis Files
- Error Log
- Progress-



# Chapter 2: Enhancements to Existing Features

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This section contains the following topics:

[Improved Migration of Monitor Definitions From Prior Release](#) (see page 9)

[DB2 Enhancements](#) (see page 9)

[DB2 Parameters Enhancements](#) (see page 10)

[Support for z/OS 1.13](#) (see page 12)

[WebSphere Release 8 Support](#) (see page 13)

[Support for IMS Transaction History Import from Sysview](#) (see page 13)

[Support for WebSphere for MQ](#) (see page 14)

[Improved IMS DBCTL Support](#) (see page 14)

[Technical Currency](#) (see page 14)

## Improved Migration of Monitor Definitions From Prior Release

Use of the IDCAMS REPRO command is no longer supported when migrating monitor definitions from a prior release of CA Mainframe Application Tuner. Using this method can cause irreparable harm to Global and User Information Files because product-specific record formats can change from release to release.

The migration of monitor definitions from a prior release of CA Mainframe Application Tuner has been improved by replacing the IDCAMS REPRO command with product specific routines.

For Global Monitor Definitions (those contained in the Global Information File), a new option has been added to the Customization procedure (TRCUST). This option provides the installer with a single JCL stream that can both allocate a new Global Information File and copy monitor definitions, including history information, from the prior release Global Information File designated by the installer.

For User Monitor Definitions, (those contained in a User Information File) the REPRO command is also removed and replaced with product specific routines.

## DB2 Enhancements

Support for DB2 has been enhanced by consolidating the routines and methods used to convert data encoded in the UTF-8 format. CA Mainframe Application Tuner now exploits IBM Unicode Services and converts UTF-8 encoded data at a single point within the product.

The CA Mainframe Application Tuner DB2 Harvester has also been enhanced to reduce overhead in its SQL data collection algorithms and provide for improved summarization of SQL records. The improved summarization of SQL, for most DB2 monitors, reduces the size of monitor files, reduces the overhead associated with analyzing a DB2 monitor file, and reduces TUNBATCH runtimes and overhead.

These summarization enhancements do not have any impact on DB2 monitors created with prior releases of CA Mainframe Application Tuner. In addition, a significant number of DB2 parameters have also been removed as a result of these enhancements. These parameters are documented in the [DB2 Parameters Enhancements](#) (see page 10) section.

## DB2 Parameters Enhancements

The management of DB2 Global Parameters has been greatly simplified in the current release due to the following enhancements. These changes allowed the removal of a number of parameters from TUNSP00.

Following are the list of enhancements, the parameters that were deleted due to the change, and the new behavior in the current release:

- Enhanced Monitor Definition options allow users to specify whether to collect DB2 EXPLAIN data or use the DB2 catalog to obtain SQL text. As these options can now be specified on individual monitor requests, they have been removed from the TUNSP00 global parameters. For more information, see the chapters "Monitor Criteria for DB2" and "DB2 Monitor Profile Options" in the *CA MAT User Guide*.

Following parameters are obsolete and have been removed from TUNSP00 :

### **DB2EXPL**

Collects EXPLAIN Data for Sampled SQL.

### **DB2HEXPL**

Collects EXPLAIN Data for Harvested SQL.

### **New Behavior:**

In the current release, DB2 EXPLAIN data may not be collected unless the user requests it for individual monitors. Also, CA Mainframe Application Tuner does not distinguish between collecting EXPLAIN data for sampled or harvested SQL; if EXPLAIN data is requested then it is collected for both sampled and harvested SQL.

**DB2CTSQL**

Obtains SQL text from the DB2 Catalog.

**New Behavior:**

In the current release, SQL statement text will be collected from internal DB2 control blocks. However, if a user must specify that request on a monitor definition to collect the data from the DB2 SQL catalog.

- Enhanced DB2 data collection significantly reduces overhead during the collection and processing of SQL statement text when monitoring a DB2 address space.

As a result, the following global parameters are now obsolete and have been removed from TUNSSP00:

**DB2SPSQL**

Collects SQL statement text during sampling.

**DB2SPDYN**

Collects dynamic SQL text during sampling if DB2SPSQL=NO.

**New Behavior:**

In the current release, the DB2 SQL statement text always get collected, whether for static or dynamic SQL, if seen during sampling.

**DB2HVSQ**

Collects harvested SQL data.

**DB2HVDYN**

Collects dynamic SQL data if DB2HVSQ=NO

**New Behavior:**

In the current release, if the DB2 Harvester is enabled (DB2HRVST=YES) then the Harvester collects DB2 SQL statement text for both static and dynamic SQL.

**DB2HVSUM**

Specifies the data rows for internal summarization table.

**New Behavior:**

Improved DB2 data collection has made this table obsolete in the current release.

- Configuration of DB2 data collection is now simplified. CA Mainframe Application Tuner uses its own internal default values to determine whether to terminate DB2 data collection when ABENDs occur. As a result, the following global parameters have been removed from TUNSSP00:

**DB2HVMXA**

Specifies the maximum number of Harvester abends to allow before terminating DB2 data collection.

**DB2HVMXM**

Specifies the maximum number ofabend messages to be displayed in the JES server log.

**New Behavior:**

The Harvester now allows up to 1000 abends before terminating DB2 data collection. It can also limit the number ofabend messages displayed in the JES server log to 100.

- SQL text translation has been enhanced and the DB2TCSID parameter no longer needs to be specified in TUNSSP00:

**DB2TCSID**

Specifies the UNICODE translation code page.

**New Behavior:**

In the current release, an IBM service is used to perform the translation.

## Support for z/OS 1.13

CA Technologies has verified that CA Mainframe Application Tuner fully supports this release of z/OS.

## WebSphere Release 8 Support

CA Mainframe Application Tuner provides support to the most current release of the IBM WebSphere Application Server.

For Java applications executing under IBM WebSphere configured on z/OS, CA Mainframe Application Tuner makes the critical connection between the z/OS-based system services visible to standard monitors and the Java application where meaningful performance analysis may occur.

CA Mainframe Application Tuner performs the following:

- Identifies individual transactions entering the IBM WebSphere Application Server.
- Reports individual Java class and method names and specific Java program statements responsible for generating the heaviest amounts of execution and database processing.
- Provides important statistics on IBM WebSphere memory utilization and performance.

## Support for IMS Transaction History Import from Sysview

CA Mainframe Application Tuner now supports the import of IMS transaction history from Sysview.

## Support for WebSphere for MQ

CA Mainframe Application Tuner now provides additional data on the Queue Activity and the Queue Information panels. The Queue Activity panel now shows the following data:

**Number of Requests**

Specifies the number of times the Queue is accessed by the MQ Command during this monitor run.

**Min Msg Length**

Specifies the length of the shortest message processed by the Queue during this monitor run.

**Max Msg Length**

Specifies the length of the longest message processed by the Queue during this monitor run.

**Avg Msg Length**

Specifies the average length of all messages processed by the Queue during this monitor run.

The new data on the Queue Information panel is the same as on the Queue Activity panel excluding the Number of Requests column.

## Improved IMS DBCTL Support

Prior to this release, CA Mainframe Application Tuner reported IMS activity in a CICS address space only when a CICS TS 3.2 address space was attached to an IMS V11.1 database manager. Version 9.0.00 extends this support to all supported versions of CICS and IMS.

## Technical Currency

This section describes the technical currency enhancements.

### CA Datacom Currency

CA Mainframe Application Tuner version 9.0 supports all supported releases of CA Datacom through release 14.

## CA IDEAL Currency

CA Mainframe Application Tuner version 9.0 supports all supported releases of CA Ideal for CA Datacom through release 14.

## CA IDMS Currency

CA Mainframe Application Tuner version 9.0 supports both CA IDMS release 17 and CA IDMS Version 18.0.00.

## IMS Currency

CA Mainframe Application Tuner version 9.0 supports all supported releases of IMS through release 12.1

## Natural Currency

CA Mainframe Application Tuner version 9.0 supports all supported releases of Natural through release 8.2.

## WebSphere MQ Currency

CA Mainframe Application Tuner fully supports the new release of WebSphere MQ V7.1.0 and CA Technologies has added release support verification to this feature.





# Appendix A: Known Issues

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## Published Fixes for Version 9.0.00

All published fixes are available at [Published Solutions on CA Support](#).



# Appendix B: Third-party Acknowledgements

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CA Mainframe Application Tuner includes software developed by third-party software providers. This appendix provides information regarding these third-party software providers.

This section contains the following topics:

[Eclipse](#) (see page 19)

[Eclipse Plug-Ins](#) (see page 19)

## Eclipse

This product contains Eclipse Rich Client Platform 3.6.2 (the Eclipse Product). Use of the Eclipse Product is in accordance with the Eclipse Public License 1.0. The source code for Eclipse Product may be found at <http://www.eclipse.org/downloads/> or <http://opensrcd.ca.com>.

## Eclipse Plug-Ins

This section contains the following topics:

- [EPL Plug-ins](#) (see page 19)
- [CPL Plug-ins](#) (see page 19)
- [Apache Plug-ins](#) (see page 20)

## EPL Plug-Ins

This product contains certain plug-ins, which are provided in accordance with the Eclipse Public License 1.0 (EPL Plug-ins). The source code for the EPL Plug-ins may be found at <http://www.eclipse.org/downloads/> or at <http://opensrcd.ca.com>.

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## Apache Plug-Ins

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