



HYPERION® ESSBASE® – SYSTEM 9
RELEASE 9.3.1

NEW FEATURES

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This document describes the new features in Oracle's Hyperion® Essbase® – System 9 Release 9.3.1.

For information about the new features in Oracle's Essbase® Administration Services, see the *Essbase Administration Services New Features* booklet.

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Incrementally Loading Data into Aggregate Storage Databases

The aggregate storage database model has been enhanced with the following features:

- An aggregate storage database can contain multiple slices of data.
- Incremental data loads complete in a length of time that is proportional to the size of the incremental data.
- You can merge all incremental data slices into the main database slice or merge all incremental data slices into a single data slice while leaving the main database slice unchanged.
- Multiple data load buffers can exist on a single aggregate storage database. To save time, you can load data into multiple data load buffers at the same time.
- You can atomically replace the contents of a database or the contents of all incremental data slices.
- You can control the share of resources that a load buffer is allowed to use and set properties that determine how missing and zero values, and duplicate values, in the data sources are processed.

See the *Hyperion Essbase - System 9 Database Administrator's Guide*, the *Essbase Technical Reference*, and the *Essbase Administration Services Online Help*.

Enabling Faster Data Loads from Teradata Data Sources

Supported on all Essbase-supported platforms except 64-bit Windows Itanium and 64-bit HP-UX Itanium. SQL Interface enables use of Teradata Parallel Transporter Export Operator from Teradata Tools and Utilities Release 8.2 to significantly improve data load performance: With this method, Teradata ODBC release 3.6 is used to extract the database schema; then Export Operator retrieves the data.

The customer is responsible for having the correct Teradata license and ODBC version installed and configured on the Essbase Server computer. See “Appendix A” of the *Essbase SQL Interface Guide*.

Exporting the `essbase.sec` Security File

An Essbase Administrator can export the contents of the `essbase.sec` file for an Essbase Server instance to a readable, text file format, which is useful for review purposes.

When exporting the `essbase.sec` file, follow your company’s security procedures to ensure the integrity of the data.

The export security file command, which can be run from Administration Services Console or as a MaxL statement (`export security_file`), is run against the Essbase Server session for which you are currently logged in. The Essbase Server session can be one that is run as a service.

See the *Hyperion Essbase - System 9 Database Administrator's Guide* and the *Essbase Technical Reference*.

Canceling Operations

When running ESSCMD or MaxL, you can cancel some asynchronous operations, such as query, calculation, export, or restructure operations, by pressing and holding the Esc key until you see a response.

Improving Retrieval Performance on Large Dimensions

Queries on large dimensions can often have large resource requirements. However, these queries are typically very sparse, meaning that the number of non empty values returned is relatively small compared to the size of the input query. For these types of queries (large, but sparse), we suggest using the following special MDX and Report Writer functions to help Essbase more efficiently use memory and processor resources. These functions optimize retrieval performance by attempting to handle only non-empty combinations.

- Leaves() MDX function
- NonEmptySubset() MDX function
- MDX optimization properties: NONEMPTYMEMBER and NONEMPTYTUPLE
- Leaves Report Writer Command
- Generation or level specification in Descendants and Idescendants Report Writer commands (when used within Link command)

MaxL and MDX

For a complete description of MaxL statements and MDX language, refer to the *Essbase Technical Reference*.

MaxL

See “What's New in MaxL DDL” in the *Essbase Technical Reference*.

MaxL has the following new grammar:

- **export security_file**: Exports the contents of the security file (`essbase.sec`) for an Essbase Server instance to a readable, text file.
- **alter database**: Aggregate storage enhancements including controlling resource usage of data load buffers, merging incremental data slices, and setting properties that determine how certain values in the data sources are processed.
- **import data**: Aggregate storage enhancements including creating new data slices in the database, committing the contents of multiple data load buffers using one MaxL statement, and replacing the contents of a database or of all incremental data slices in a database.

MDX

MDX has the following new functions. See the *Essbase Technical Reference*.

- Leaves
- NonEmptySubset
- Optimization properties NONEMPTYMEMBER and NONEMPTYTUPLE

Where to Get More Information

Each topic in this booklet is described in more detail in the Oracle's Hyperion® Essbase® – System 9 documentation.

For answers to questions about the product, contact your authorized technical support provider or:

Hyperion Customer Support	
Phone:	203-703-3600 (outside the U.S.A.)
Phone:	877-901-4975 (in the U.S.A.)
Internet:	http://support.hyperion.com