



**ORACLE® ESSBASE**

*Release 12.2.1.0.0*

Readme



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## Purpose

This document includes important, late-breaking information about this release of Oracle Essbase. Review this Readme thoroughly before installing Essbase in an Oracle Business Intelligence 12.2.1.0.0 environment.

## Essbase 12.2.1 Use Cases for BI 12.2.1

These are the use cases for deploying Essbase 12.2.1 in BI 12.2.1:

- Essbase 12.2.1 includes the Essbase Business Intelligence Acceleration feature. Using the Essbase BI Acceleration Wizard, a BI administrator can deploy an Essbase cube with selected data from a BI business model, resulting in improved query performance and reducing the dependency on underlying database optimizations.
- Expanding the domain to support Essbase 12.2.1 and later releases.

**Note:** You can continue to use the Essbase databases in your pre-12.2.1 Essbase installations as BI data sources. See the Essbase documentation for the release you are using.

See these chapters in the *Oracle Essbase Database Administrator's Guide* for Release 12.2.1:

- Part XI: “Essbase Deployed on a WebLogic Server Cluster”
  - Chapter: “Essbase Java Agent”
  - Chapter: “Understanding Essbase Deployed in BI 12.2.1”
- Part XII: “Essbase Cube Deployment Service and Essbase Business Intelligence Acceleration”:
  - Chapter: “Understanding the Essbase Cube Deployment Service”
  - Chapter: “Understanding Essbase Business Intelligence Acceleration”
  - Chapter: “Using the Essbase BI Acceleration Wizard”
  - Chapter: “Essbase BI Acceleration Wizard UI Reference and Accessibility”

## Administration Services and Essbase Studio Are No Longer Available

Release 12.2.1 includes Essbase and Oracle Hyperion Provider Services. Oracle Essbase Administration Services and Oracle Essbase Studio are no longer available and are not supported with Release 12.2.1.

References to Administration Services and Essbase Studio in the Essbase and Provider Services documentation set should be ignored.

## Features No Longer Supported in this Release

Essbase introduces behavior changes in addition to new features. Changes in behavior include desupported features, components, configuration settings, options, and syntax. In the release in which a feature is not supported, the functionality is either completely removed from the product or, if not completely removed, is no longer supported.

The topics in this section apply to the Essbase 12.2.1 release.

For information about features that were no longer supported or deprecated in previous releases of Essbase, see “Essbase Features No Longer Supported or Deprecated in Previous Releases” in the *Oracle Essbase Database Administrator's Guide*.

Starting with Essbase 12.2.1, these features are no longer supported:

- Direct I/O
- Block storage outline synchronization
- Outline change log
- Currency conversion applications and currency partitions
- Data compression types: zlib and none
- Linked partitions
- Oracle Essbase Administration Services JAVA API
- Network File System (NFS) protocol on Network Attached Storage (NAS) devices
- MaxL statements and grammar related to user and group management or to other deprecated security functionality:
  - The following MaxL statements in their entirety are no longer supported:
    - alter group
    - alter user
    - create group
    - create user
    - deploy
    - drop group
    - drop user
    - export security file
  - In these MaxL statements, the following grammar is no longer supported:
    - alter system statement:
      - clear logfile
      - sync security\_backup
      - compact security file
      - set message\_level
      - set eas\_loc

- ❑ display group statement—failed\_sss\_migration
- ❑ display system statement:
  - security file fragmentation\_percent
  - lease manager
- ❑ display user statement:
  - failed\_sss\_migration
  - shared\_services\_native with auto\_password
  - migr\_modified\_access
- ❑ grant statement— all privileges and roles (you can only grant calculation and filter access)

References to these features in the Essbase and Oracle Hyperion Provider Services documentation set should be ignored.

## Installation Information

See the *Oracle Fusion Middleware Installation Guide for Oracle Business Intelligence* for information on installing Essbase in the BI 12.2.1 environment.

## Supported Platforms

See the Oracle Fusion Middleware 12c Certifications on the Oracle Fusion Middleware Supported System Configurations page on the Oracle Technical Network at <http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>.

## Supported Paths to this Release

Essbase 12.2.1 supports only two use cases, neither of which involve upgrading from a previous release of Essbase. See “Essbase 12.2.1 Use Cases for BI 12.2.1” on page 2.

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**Caution!** Oracle recommends using the same version of the Essbase product and components (server, client, runtime client, API, and JAPI).

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## Known Issues in this Release

The following are the noteworthy known issues of this release.

- 20148540 -- Performing an aggregate view selection using an 11.2.3.x client against the 12.2.1 Essbase Server generates the following error message:

This protocol is obsolete. Client application must be upgraded to use this functionality.

- 21165772 -- When setting up the Singleton shared data directory (SDD) in a scaled out deployment, Essbase must be set up in the same directory structure as the Essbase application directory. If the directory structure is not the same, block storage applications might not start.
- 21875962, 21888775 -- Essbase Java Agent fails to start out of the box when Essbase is deployed in BI 12.2.1, which is configured with DB2.

#### Workaround:

1. Login to the Oracle WebLogic Server Administration console.
2. Navigate to **Services**, then **Data Sources**, then **wlsservices\_datasource**, and then the **Connection Pool** tab.
3. Use the **Lock & Edit** option.
4. In the **Properties** section, change the user property from:

```
user=<RCU_PREFIX>_WLS_RUNTIME
```

To:

```
user=<RCU_PREFIX>_WLS
```

For example:

```
user=MYBI_WLS  
oracle.net.CONNECT_TIMEOUT=10000  
SendStreamAsBlob=true
```

5. Save the changes.
  6. Navigate to **Environment**, then **Clusters**, then **bi\_cluster**, and then the **Migration** tab.
  7. In the **Auto Migration Table Name** field, prepend <RCU\_PREFIX>\_WLS\_RUNTIME to the exiting **ACTIVE** value:  

```
<RCU_PREFIX>_WLS_RUNTIME.ACTIVE
```

Using the example from Step 4:  

```
MYBI_WLS_RUNTIME.ACTIVE
```
  8. Save the changes.
  9. Use the **Activate Changes** option to makes these changes take effect.
  10. Restart the BI 12.2.1 environment.
- 19842726 -- If you use XML outline editing to rename a member, the cell data is not retained.
  - 20071438, 19926562 -- Exported data that contains member names in double quotation marks and ending in a backslash can lead to rejected records when it is re-imported using a rules file.
  - 20347013 -- With Essbase running on AIX, in some cases query results for a 0 value might display as 00. This issue is caused by the operating system, not Essbase.

IBM has issued an APAR for AIX V7.1 that fixes this problem: IV24433: SPRINTF PRINTS ONE MORE FRACTIONAL DIGIT THAN SPECIFIED APPLIES TO AIX 7100-01.

Download the fix from: <http://www-01.ibm.com/support/docview.wss?uid=isg1IV24433>

- 21968145, 21962838 -- For Essbase Cube Deployment Service, a shared login must be manually configured in the connection pool.

### Description

When using the Essbase Cube Deployment Service wizard to create a new Essbase connection pool in the BI repository, there is no opportunity to enter the shared login user name and password. However, in Oracle Business Intelligence 12.2.1.0.0 and higher, a shared login is required for all Essbase connection pools. An Essbase connection pool that is configured without a shared login will cause the BI Server to use Oracle Hyperion Shared Services shared token authentication, which is no longer supported for Essbase connections from BI. This may cause Essbase connections from certain BI components, such as Visual Analyzer, to fail with the following error:

```
[nQSError: 96002] Essbase Error: Login failed with error 1051293. Verify the URL and the login credentials
```

### Workaround Option 1

While using the Essbase Cube Deployment Service wizard, select from the RPD an existing Essbase data source and connection pool that already has the shared login information provided.

### Workaround Option 2

After completing the Essbase Cube Deployment Service wizard, open the BI repository in the Oracle BI Administration Tool and manually update the connection pool created by the Essbase Cube Deployment Service wizard, providing the required shared login information. Or, deselect the SSO option if it is not required.

To configure the user name and password for the Essbase connection pool created by the Essbase Cube Deployment Service wizard,

1. Download the BI repository from the BI Server, using the **data-model-cmd** utility. For example,

```
%DOMAIN_HOME%\bitools\bin\data-model-cmd.cmd downloadrpd -O repository.rpd -W YourRPDPasswd -U YourBIAdminUsername -SI YourServiceInstance
```

2. Open the RPD file in the Oracle BI Administration Tool.

```
%DOMAIN_HOME%\bitools\bin\admintool.cmd
```

3. Locate the connection pool created by the Essbase Cube Deployment Service wizard in the physical layer of the BI repository, and double click it to open the **Connection Pool** dialog.
4. Check the **Shared logon** option, and enter the user name and password for the Essbase Server.

**Note:** If you leave the **SSO** option checked, enter the user name and password of an Essbase administrator with the permission to impersonate other users.

5. Save the repository, and close the Oracle BI Administration Tool.
6. Upload the modified BI repository to the BI Server using the **data-model-cmd** utility.  
For example,
 

```
%DOMAIN_HOME%\bitools\bin\data-model-cmd.cmd uploadrpd -I repository.rpd -W
YourRPDPassWord -U YourBIAdminUsername -SI YourServiceInstance
```
7. Log out of any existing sessions in BI Answers or Visual Analyzer, and reconnect.

For more information about updating connection pool properties, see the *Oracle BI Metadata Repository Builder's Guide*.

## Documentation Updates

### Subtopics

- [Correction: Using Runtime Substitution Variables in Calculation Scripts Run in Smart View](#)
- [Drill-Through C APIs Not Supported with Essbase Studio](#)
- [@RELATIVE Calculation Function](#)
- [DATAEXPORT Calculation Command](#)
- [Incorrect MaxL Login Example](#)
- [Transaction History Not Saved With Forced Restructure](#)
- [Variable Defined By a VAR Calculation Command Cannot Be Included in the FIX Member Statement](#)
- [Correction: \(^\) Never Consolidate Operator is Not Supported in Aggregate Storage Databases](#)
- [Copying and Pasting Code Snippets from PDFs](#)

## Correction: Using Runtime Substitution Variables in Calculation Scripts Run in Smart View

The following information updates the “Using Runtime Substitution Variables in Calculation Scripts Run in Smart View” section of the *Oracle Essbase Database Administrator's Guide* for 12.2.1.0.0:

- The value of the runtime substitution variable must be set to POV; it cannot be set to a member name.
- The runtime substitution variable data type can be set to a member, string, or number; it cannot be set to a date

The correct syntax of a runtime substitution variable definition for use in Oracle Smart View for Office:

```
SET RUNTIMESUBVARS
{
  rtsv = POV
    <RTSV_HINT>
      <svLaunch>
        <description>rtsv_description</description>
        <type>member | string | number</type>
```

```

        <dimension>dimName</dimension>
        <choice>single | multiple</choice>
        <allowMissing>true | false</allowMissing>
    </svLaunch>
</RTSV_HINT>
};

```

Only the example in the “Example 1: Runtime Substitution Variable Set to POV” topic is correct. Ignore the examples in these topics:

- Example 2: Runtime Substitution Variable Set to a Single Member Name
- Example 3: Runtime Substitution Variable Set to Multiple Member Names
- Example 4: Example: Runtime Substitution Variable—String Data Type Implied

The date data type is not supported; however, the string data type can be defined as a date.

The correct description of the string data type:

string—The runtime substitution variable value can be defined as a single member name, a comma separated list of member names (for example, "New York", "Florida"), or a date.

When using the string data type, the **Member Selection** dialog box is not available; therefore, the Oracle Smart View for Office user must be sure to use the correct syntax (enclosing a member name in quotes, separating multiple member names with a comma, or, for a date, matching the format of the date string to the format that is defined in the calculation script—mm-dd-yyyy or dd-mm-yyyy).

(21903619, 22777038)

## Drill-Through C APIs Not Supported with Essbase Studio

The following Oracle Essbase C API functions are not supported with Oracle Essbase Studio drill-through. (21264590)

- EssGDTConnect
- EssGDTRequestDrillThrough
- ESSGDTGetInfo
- ESSGDTSetInfo
- ESSGDTListReports
- EssGDTExecuteReport
- EssDTAPIGetError
- ESSGDTGetHeader
- ESSGDTGetData
- EssGDTEndDrillThrough



## @RELATIVE Calculation Function

Documentation for the @RELATIVE function states that it returns all members at the specified generation or level that are above or below the specified member. Clarification: If the specified parameters to @RELATIVE are used with the specified level or generation describing the specified member, then the specified member is included. For example, @RELATIVE(("100-10", 0)) includes 100-10 in the results, because 100-10 is a level 0 member. @RELATIVE(("100",1)) includes 100 in the results, because 100 is a level 1 member. (23346627)

## DATAEXPORT Calculation Command

The DATAEXPORT documentation incorrectly states that the command puts the database in read-only mode. (22899744, 20772811)

## Incorrect MaxL Login Example

The example in the MaxL documentation for the **login** statement is incorrect. The correct example is:

```
login admin password on 'http://myhost:13080/aps/Essbase?clustername=EssbaseCluster-1';  
(23033490)
```

## Transaction History Not Saved With Forced Restructure

All data load and calculation transaction history is removed after a forced restructure, because empty blocks are removed upon restructure. (22952371)

## Variable Defined By a VAR Calculation Command Cannot Be Included in the FIX Member Statement

The variable (*varName*) that is defined by a VAR calculation command cannot be used within the FIX member statement. The FIX members are evaluated before the calculation is executed, and variables are evaluated during runtime after the FIX statement is set. Because variables can change during the calculation execution, you cannot use the variable as part of the FIX statement. The following example shows the incorrect use of the variable in the FIX member statement:

```
VAR varName=1;  
FIX (@relative(@memberat(@List("Product1","Product2"),varName),0))  
    commands;  
ENDFIX;
```

(22918285)

## Correction: (^) Never Consolidate Operator is Not Supported in Aggregate Storage Databases

The following information updates the *Oracle Essbase Database Administrator's Guide* for 11.1.2.4:

- The (^) never consolidate operator is not supported in aggregate storage databases. Any references to the use of the ^ operator in aggregate storage outlines should be ignored.
- In Administration Services Console, by default, text and date measures are assigned the never consolidate operator (^). However, when used in an aggregate storage database, the ^ operator is ignored in the consolidation that follows.

In the “Outline Factors Affecting Data Values” topic, the ^ consolidation operator is incorrectly listed as supported for dynamic hierarchies in aggregate storage databases.

(19376666, 19131994)

## Copying and Pasting Code Snippets from PDFs

When you cut and paste code snippets from a PDF file, some characters can be lost during the paste operation, making the code snippet invalid. Workaround: Cut and paste from the HTML version of the document.

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