

Oracle® Hyperion Strategic Finance

Oracle® Hyperion Strategic Finance for Banking

Administrator's Guide

Release 11.1.2.2.000

ORACLE®

**ENTERPRISE PERFORMANCE
MANAGEMENT SYSTEM**

Strategic Finance Administrator's Guide, 11.1.2.2.000

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Contents

Documentation Accessibility	9
Chapter 1. Architectural and Administrative Overview	11
Architecture	11
Administrative Tasks	11
Updating EPM System Application Servers	12
Chapter 2. Managing Users, Groups, and Security	13
Defining Users and Groups in Foundation Services	13
Assigning Task and Access Permissions	13
Extending Default Security	14
About Advanced Security, Authorization, and Authentication	14
Chapter 3. Defining Servers, Rule Sets, and Scenario Types	17
Managing Servers	17
Specifying Connections	17
Logging on	18
Selecting and Deleting Connections	18
Selecting Databases	18
Disconnecting From Servers	19
Selecting Items	19
Defining Rule Sets	19
Specifying General Options	19
Specifying Accounts Options	20
Defining Time Options	20
Creating Time Formulas	21
Defining Scenario Options	21
Adding Scenario Types to Time Rules	22
Using Time Functions	22
Working With Scenario Types	26
Defining Scenario Types	26
Deleting Scenario Types	26
Defining and Transferring Server Settings	26

Defining General Settings	27
Defining Language Settings	27
Defining System Event Log Settings	27
Defining Entity Event Log Settings	28
Defining E-mail Settings	28
Defining Advanced Register Entry Settings	28
Importing and Exporting Server Information	30
Configuring Connections to External Staging Databases	30
Assigning Server Permissions	30
Chapter 4. Working With Databases	31
Managing Databases	31
Creating Strategic Finance Client Databases	31
Creating Databases from Consolidation Labels	32
Switching Databases	32
Deleting Databases	33
Exporting Entities to External Databases	33
Connecting to External Databases	33
The Export Database Tables	34
Exporting to Essbase	36
Reporting Utilities for Extended Analytics	37
Using Extended Analytics	37
Permitting user rights for Extended Analytics database	37
Creating Extended Analytic Tables	38
Creating Extended Analytics Rule Sets	39
Optional: Creating Reference Databases and Entities	42
The Extended Analytics Star Schema	43
Integrating with EPM System Products	51
Requirements	51
Automating Batch Exports to Essbase and Planning	52
Integrating with FDM	52
Chapter 5. Managing Entities and Entity Groups	55
Managing Entities	55
Accessing Entities	55
Changing Entity Owners	56
Breaking Entity Locks	56
Manually Exporting Entities	56
Manually Exporting Extended Analytics	56
Converting Entities After an Upgrade	57

Managing Entity Groups	57
Adding Entity Groups	57
Editing Entity Groups	58
Deleting Entity Groups	58
Setting Entity Check-In Rules and Managing Archives	58
Setting Entity Check-In Rules	58
Managing Entity Archives	59
Inspecting Entity Archives	60
Chapter 6. Specifying User and Group Access to Databases and Entities	61
Assigning General Database Access	61
Assigning Access for Users and Groups	61
Assigning General Database Options	62
Configuring Default Access to Databases, Entities, and Entity Groups	62
About Assigning Default Access	62
Configuring Entities Access Options	64
Configuring Accounts Access Options	64
Adding Permissions Groups	65
Configuring Time Access Options	65
Configuring Reports Access Options	65
Configuring Scenario Access Options	66
Configuring Dimension Access Options	66
Configuring Consolidation Access Options	67
Configuring Reference Access Options	67
Configuring Default Access for New Entities	67
Adding Users and Groups to Databases, Entities, or Entity Groups	68
Adding Users	68
Adding User Groups to Databases, Entities, or Entity Groups	69
Chapter 7. Activating and Managing Client-Side Functionality	71
Activating and Managing Entity Change Management	71
Activating Entity Change Management	71
Defining Access to ECM Documents	72
Adding Users to ECM Documents	72
Adding User Groups for ECM Documents	73
Editing Access to ECM Documents	73
Changing the Owner of ECM Documents	73
Breaking Locks on ECM Documents	74
Activating and Managing Assumptions Change Manager	74
Activating Assumptions Change Manager	74

Adding and Removing Users and Groups to ACM Documents	74
Changing ACM Document Owners	75
Breaking ACM Document Locks	75
Managing Import or Export Batches, Maps, and Servers	75
Managing Connections to EPM System Product Servers	75
Managing Batches	76
Managing Maps	77
Chapter 8. Managing Locks, Logs, Transactions, and Sessions	79
Managing Entity Locks	79
Managing Transactions	79
Managing Logs	80
Managing User Sessions	80
Managing Event Logs	80
Appendix A. Server Registry and Database Directory Structure	83
Server Registry	83
EPM System Strategic Finance Service Registry Parameters	83
HSF Service Shared Services Registry Parameters	84
HSF Server Registry Parameters	85
Directories and Files	85
%EPM_ORACLE_HOME%\products\hsf\	85
%EPM_ORACLE_HOME%\Diagnostics\Logs\hsf	89
Appendix B. Exporting Data	91
About Exporting	91
Requirements	91
Setting Up a SQL Server Database	91
Setting up an Oracle Database	92
Using Oracle Application Clusters	93
Creating SQL Server Export Databases	94
Upgrading Export Databases	94
Configuring the Strategic Finance Server	95
Creating Connections	95
Configuring the External Database Connection	95
Appendix C. Migrating Data	97
Requirements	97
Performing the Physical Migration	97
Entity Conversion	98

Appendix D. Troubleshooting	99
Disabled Create Map Options for Financial Management	99
Oracle EPM Product Integrations	100
Backing up 11.1.x Applications	100
Moving Entities to Another Database on the Same Server	100
Client Connections to the Strategic Finance Server	101
Performing Strategic Finance Service Diagnostics	101
Starting and Restarting the Service	101
Verifying the Service in Windows Task Manager	102
Viewing Messages in the Event Viewer	102
Server Memory Errors and Error Logs	102
Glossary	103
Index	105

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1

Architectural and Administrative Overview

In This Chapter

Architecture	11
Administrative Tasks	11
Updating EPM System Application Servers	12

Architecture

You can use Oracle Hyperion Strategic Finance as a stand-alone application or as a client-server system. Use the Strategic Finance Client to locally develop financial models (entities) that can be stored locally or on the Strategic Finance server. The Strategic Finance Server is a centrally-managed version control system that also hosts multiple databases that you can use to promote financial uniformity between models and archive data. The Strategic Finance Server can also host staging databases you can use to export data to and import data from external databases and maintains the Admin Doc that contains administrative settings. Users check out the entities required for their financial models on the Strategic Finance Server, develop them on the Strategic Finance Client, and then check them into the server.

Administrative Tasks

Perform administrative tasks using these menus or tabs

- **Access**, and then **Database Options**—Add the users and groups that you create and provision in Shared Services to Strategic Finance. You can then identify the database-specific tasks users in Strategic Finance can perform.
- **Access**, and then **Edit Defaults**—Add the users and groups provisioned in Shared Services, and specify the tasks, such as adding scenarios and running consolidations, that they can perform in Strategic Finance.

Note: For information about using existing user directories or supported authentication providers, see the *Oracle Hyperion Enterprise Performance Management System Security Administration Guide*

- **Databases**— Create, assign access rights to, and manage Strategic Finance databases
- **Entities** — View entities in a selected database and assign user access to entities
- **Entity Groups** — Create and maintain entity groups for bulk-management

- **ECM** — If enabled, use to view Entity Change Management documents. See [“Configuring Default Access to Databases, Entities, and Entity Groups”](#) on page 62.
- **Locks** — Identify the entities that are locked, the users working with each entity, and break locks if required.
- **Batches** — If enabled, manage batch files to import data from, and export data to other Oracle Enterprise Performance Management System products. See [“Configuring Default Access to Databases, Entities, and Entity Groups”](#) on page 62
- **Maps** — If enabled, import maps from, and export maps to other EPM System products. See [“Configuring Default Access to Databases, Entities, and Entity Groups”](#) on page 62
- **Transactions** — Monitor server transactions.
- **Sessions** — Monitor how long users use the product
- **Logs** — Monitor server actions
- **Event Logs** — View server events configured in [“Managing Event Logs”](#) on page 80

Updating EPM System Application Servers

After upgrading to this release, update stored references to the Oracle Hyperion Planning, Oracle Hyperion Financial Management, or Oracle Hyperion Enterprise® servers in the maps and batches that you may use to import or export data. You can also perform a bulk update of Oracle Essbase server names as part of the upgrade.

► To update stored server references:

- 1 Perform the steps in [“Updating References to a Rehosted Essbase Server”](#) in the *Oracle® Hyperion Enterprise Performance Management System Installation and Configuration Guide*.
- 2 Launch and log on to the Strategic Finance Administrator.
- 3 Select **Server**, and then **Upgrade Connections**.

All available batches and maps on the Oracle Hyperion Strategic Finance Server display and are checked out to current user of the Administration application. Maps and batches checked out to other users are read-only.

- 4 From **Connection Type**, select the product for which you import or export maps and batches.
- 5 Select the maps and batch files to update.
- 6 In **New Server Name**, enter the name of the product server.
- 7 Click **Update Selected**. The selected maps and batches are updated.
- 8 Click **OK**. All check out locks are released.

2

Managing Users, Groups, and Security

In This Chapter

Defining Users and Groups in Foundation Services	13
Assigning Task and Access Permissions	13
Extending Default Security	14
About Advanced Security, Authorization, and Authentication	14

Defining Users and Groups in Foundation Services

Create and provision the users and groups who will use Strategic Finance in Oracle Hyperion Shared Services as follows:

1. Select **Start**, then **Programs**, then **Oracle EPM System**, then **Foundation Services**, and then **Start Shared Services**.
2. In Application Management, select **User Directories**, then **Native Directories**, and then **user** or **group**.
3. Right-click and select **New**.
4. Define the user or group account as described in the *EPM System User and Role Security Guide* .
5. Afterward, right-click the user or group and select **Provision**.
6. In the **Available Rows**, expand **Strategic Finance** and move the **Basic User** , **Interactive User**, or **Administrator** roles to **Selected Roles**.
7. Click **Save**.

For detailed information, see the *EPM System User and Role Security Guide* .

Assigning Task and Access Permissions

After creating users and groups in Oracle Hyperion Foundation Services, add them to Strategic Finance and specify the tasks that they can perform as follows:

1. Launch the Strategic Finance Administrator.
2. Select **Server** then **Open** to connect to the server.

3. Select **Access** , then **Database Options**, click **Add User** or **Add Group**, and then browse to the user or group.
4. Select the user or group, click **Edit**, and then specify the database related tasks that they can perform:
5. Select **Edit**, then **Default**, and then select the user or group.
6. Click **Edit** , then grant or deny these permissions that determine the tasks users can perform:
7. Save your changes.

Tip: To open Shared Services from Strategic Finance Administrator, select **View**, and then **Manage Users and Groups**.

Extending Default Security

Perform these steps to increase the default security:

1. When installing the databases you will use to export data or perform extended analytics, select these options:
 - Customer_Interface
 - db_owner
 - db_securityadmin
 - HSFSservice
 - public
2. To further secure the HSFSservice, select: **Control Panel**, then **Administrative Tools**, then **Services** , then **Advanced Security Settings**, then **Permissions**, and then assign the following:
 - Allow inheritable permissions from the parent to propagate to this object and all child objects. Include these with entries explicitly defined here.
 - Replace permission entities on all child objects with entities shown here that apply to child objects
3. To further secure the Admin Doc (user.adm), limit access to the minimum necessary.

About Advanced Security, Authorization, and Authentication

See the *EPM System Security Administration Guide* to perform these tasks:

- Enable SSL and single sign-on
- Configure webservers
- Use custom authentication modules

See the *EPM System User and Role Security Guide* to perform these tasks:

- Configure user directories
- Manage Native Directory
- Manage provisioning

3

Defining Servers, Rule Sets, and Scenario Types

In This Chapter

Managing Servers	17
Defining Rule Sets	19
Working With Scenario Types	26
Defining and Transferring Server Settings.....	26
Configuring Connections to External Staging Databases.....	30
Assigning Server Permissions	30

Managing Servers

Subtopics

- [Specifying Connections](#)
- [Logging on](#)
- [Selecting and Deleting Connections](#)
- [Selecting Databases](#)
- [Disconnecting From Servers](#)
- [Selecting Items](#)

The first time you, or others use Strategic Finance, you must create a server.

Specifying Connections

► To create or edit server connections:

- 1 From the desktop, select **Start**, then **Programs**, then **Oracle EPM System**, then **Strategic Finance**, then **Server**, and then **Server Administrator**.
- 2 Select **Server** , then **Open**.
- 3 Click
- 4 Perform a task:
 - Click **New—Create servers**.
 - Click **Edit—Modify a selected server**.
- 5 Specify the following:

- **Address of Server on Network (IP or DNS)**—Server network address
- **Protocol** —Protocol information
- **Port Number**—Strategic Finance server port
- **Name for this Server Connection**—Connection name

6 Click **OK**.

7 On **Select Servers**, click **OK**.

8 Select the server, and click **OK**.

Logging on

► To log on to servers:

- 1 From the desktop, select **Start**, then **Programs**, then **Oracle EPM System**, then **Strategic Finance**, then **Server**, and then **Server Administrator** .
- 2 Select **Server**, then **Open**
- 3 From **Server**, select the server and click **OK**.
- 4 To automatically log on to this server upon start up, select **Make Default**.
- 5 Click **OK**.

Selecting and Deleting Connections

► To select or delete server connections:

- 1 From the desktop, select **Start**, then **Programs**, then **Oracle EPM System**, then **Strategic Finance**, then **Server**, and then **Server Administrator**.
- 2 Select a server, then perform an action:
 - Click **OK** — Access selected server
 - Click **Delete**— Remove selected server
- 3 Click **OK**.

Selecting Databases

► To select databases:

- 1 Perform a task:
 - In the Administrator, select **Server**, then **Change Database**.
 - Select the database while [“Logging on” on page 18](#).
- 2 On **Select Database**, select a database, then click **OK**.

Disconnecting From Servers

In the Administrator, select **Server** , then **Close**.

Selecting Items

The **Select** dialog accesses different items depending on from where it is accessed.

- To select items, select one and click **OK**.

Defining Rule Sets

Rule sets define the scenarios, accounts, and time periods that exports contain. Rules are compiled in an XML file on the host.

- To define rule sets:

- 1 Select **Server** , then **Edit Rule Sets**.
- 2 Perform a task:
 - Click **New**—Create rule sets
 - Click **Edit**—Modify rule sets
- 3 See:
 - [“Specifying Accounts Options ” on page 20](#)
 - [“Specifying General Options” on page 19](#)
 - [“Specifying Accounts Options ” on page 20](#)
 - [“Defining Time Options” on page 20](#)
 - [“Adding Scenario Types to Time Rules” on page 22](#)
 - [“Using Time Functions” on page 22](#)

Specifying General Options

- To specify general options:

- 1 Select **Server** , then **Edit Rule Sets**.
- 2 Select **General**
- 3 In **Name**, specify a unique name.
- 4 Make any optional selections:
 - **Export on Entity Create**—Export new entities
 - **Clean Up on Deletion**—Delete entities from exports after deleting entities from servers

- **Clean Up on Error**—Automatically delete incomplete writes with errors
- **Clean Up on Completion**—Transfer data from staging tables to export databases
- **Run in Verbose Mode**—Automatically log errors
- **Do not export when funds flow out of balance**—Cancel exports if model funds are out of balance
- **Calculate Scenarios on Export**—Compute exported scenarios

5 See [“Specifying General Options” on page 19](#)

Specifying Accounts Options

► To select accounts:

- 1 Select **Server** , then **Edit Rule Sets**.
- 2 Select **Accounts**, then make these optional selections:
 - **Send All Accounts**—Export entire entities
 - **Browse for List**—View all accounts
- 3 On **Select Database**, select a database, then click **OK**.
- 4 In **Select Entity**, select an entity, then click **OK**
- 5 In **Time Period Accounts**, select accounts, then click > to add them to rule sets.
- 6 See [“Specifying Accounts Options ” on page 20](#).

Defining Time Options

► To select the time options:

- 1 Select **Server** , then **Edit Rule Sets**, and then **Time**.
- 2 **Optional:** Click **Add** to add a scenario types. See [“Adding Scenario Types to Time Rules” on page 22](#).
- 3 Select a scenario type.
- 4 Apply these optional settings:
 - **Use Default**—Use default time settings
 - Using time codes or functions, specify start and end times in **Beginning Boundary** and **Ending Boundary**. For example, for an entity is in quarters, time codes could be Q04 (first quarter of 2004), 2Q04, 3Q04, and 4Q04. To use functions, you could, for example, enter “@firstpd” in **Beginning Boundary** and “@lastpd” in **Ending Boundary** box to export an entire entity. See [“Using Time Functions” on page 22](#).
 - **Synthesize by Aggregate only**—Roll up time periods.
 - **Export Trailing Periods if Present**—Include trailing periods

- **Export Closing Periods if Present**—Include closing period
- **Export Deal Periods if Present**—Include deal periods

5 In the time period table, select time periods to include.

If time periods are scale-based, make these selections:

- **Include**—The scale
- **Synthesize Period**—Periods that do not exist in the source entity, but that must be created for the destination entity. If the source and target are in different time scales, select a scale to extrapolate from existing information into missing time periods. For example, if an entity is in months but you need weeks in the export, the server synthesizes week information based on the month information.
- **Period to Date**—Periods for which to generate period to date information.

If Period to Date information does not exist in the entity, this option synthesizes the information. For example, to have an export contain Period to Date information for each week, select the Week option.

Creating Time Formulas

Create time formulas to reference time periods. For example, to reference data for the current and next year, use @basepd:

```
@basepd (+1 (@year))
```

➤ To create time formulas:

1 In **Formula**, define the formula using:

- Operator buttons
- Functions. See [“Using Time Functions” on page 22](#).
- Time periods

2 Click **OK**.

Defining Scenario Options

➤ To specify scenario options:

1 Select **Server**, then **Edit Rule Sets**.

2 Select **Scenarios**.

3 From **When to Export**, specify when, based on entities, to export scenarios:

- **Always** — When checked in
- **At Audit Point** — When archived

4 Click **OK**.

Adding Scenario Types to Time Rules

► To add scenario types to rule sets:

- 1 Click **Add**.
- 2 Select a scenario type.
- 3 Click **OK**.

Using Time Functions

Subtopics

- [@basepd](#)
- [@closing](#)
- [@deal](#)
- [@firstfore](#)
- [@firstpd](#)
- [@lastfore, vXXX\(@lastfore\)](#)
- [@lasthist, vXXX\(@lasthist\)](#)
- [@opening](#)
- [@period](#)

Use time functions to specify beginning and ending boundaries in rule sets.

@basepd

Definition

Base period.

Returns

A relative time reference that returns the value for an account in the base period.

Example

If 2007 is the base period, this equation:

```
v1000 (@basepd)
```

returns the value of Sales (v1000) for 2007.

@closing

Definition

Closing period.

Returns

A relative time reference that returns the value for the closing period of an account.

Example

This formula:

```
v1000 (@closing)
```

returns the closing period value for Sales (v1000).

@deal

Definition

Deal period.

Returns

A relative time reference that returns the value for the closing period of an account.

Example

This formula:

```
v1000 (@closing)
```

returns the closing period value for Sales (v1000).

@firstfore

Definition

First forecasted period.

Returns

A relative time reference that returns the first forecasted time period value for an account.

Example

To return the first forecasted period output value for Sales, if the last historical value (e.g. 1999) of sales is 10 and a 10% growth rate in all following periods:

```
v1000 (@firstfore)
```

The value returned is 11 ($10 * 1.1$) or 2000's sales.

@firstpd

Definition

First period.

Returns

A relative time reference that returns the first period in the model's value for an account.

Example

If 2007 is the first period in the model, the formula:

`v1000(@firstpd)`

return the value for 2007 Sales (v1000). If 2007 is in quarters, Strategic Finance returns the first quarter for 2007 Sales (v1000).

@lastfore, vXXXX(@lastfore)

Definition

Last forecasted value.

Returns

- The value of an account in the last forecasted period.
- N/A for other periods.

Example

For this formula and values:

`v1000(@lastfore)`

Table 1 @lastfore Sample Values

V1000	1998H	1999H	2000F	2001F	2002F	2003F	2004F
Sales	10	15	16.5	18.15	19.965	21.962	24.158

The formula returns 24.158 in 2004 and N/A in other periods.

@lasthist, vXXXX(@lasthist)

Definition

Last historical value.

Returns

- The value in the last historical period.
- N/A for all periods up to the last historical period.

Example

For this formula and values:

```
v1000(@lasthist)
```

Table 2 @lasthist Sample Values and Formula

V1000	1998H	1999H	2000F	2001F	2002F	2003F	2004F
Sales	10	15	16.5	18.15	19.965	21.962	24.158

The formula returns and N/A in 1998, a 15.000 in 1999 and remaining periods.

@opening

Definition

Opening period.

Returns

A relative time reference that retrieves the value for an account in the opening period. The opening period is the aggregate of the closing and deal periods. For example, for a deal period in Mar99, Strategic Finance creates the accounts Mar99:Closing and Mar99:Deal, which aggregate to Mar99. Mar99 is the opening period.

Example

The formula:

```
v2000(@opening)
```

@period

Definition

Period number (starting from the first forecasted time period).

This function walks through the aggregates and input columns. The last historical time column is 0 and increases by 1 each column following.

Returns

True if the period number equals that of a number in an @if function.

Example

```
@if(@period= 2, 1, 2)
```

Returns 1 when reaching the second forecasted time column.

Working With Scenario Types

Subtopics

- [Defining Scenario Types](#)
- [Deleting Scenario Types](#)

Define scenarios types on the Strategic Finance server, and then load them to clients to ensure scenarios are uniformly implemented in entities

Defining Scenario Types

► To define scenario types:

- 1 Select **Server**, then **Scenario Types**.
- 2 Click **New** or **Edit**:
- 3 Specify a name, then click **OK**.
- 4 In **Scenario Types**, click **OK**.

Deleting Scenario Types

► To delete scenario types:

- 1 Select **Server** , then **Scenario Types**.
- 2 Select a type.
- 3 Click **Delete**, then **OK**.

Defining and Transferring Server Settings

Subtopics

- [Defining General Settings](#)
- [Defining Language Settings](#)
- [Defining System Event Log Settings](#)
- [Defining Entity Event Log Settings](#)
- [Defining E-mail Settings](#)
- [Defining Advanced Register Entry Settings](#)
- [Importing and Exporting Server Information](#)

Server settings determine how servers operate with all databases within the server.

Defining General Settings

► To define general server settings:

- 1 Select **Server**, then **Settings**, and then **General** .
- 2 Make these optional selections:
 - **Default Compression Level**—Compression setting
 - **Force User's Compression Setting to Client** — Override client with server compression
 - **Use Default Windows Color Scheme**—Use Microsoft Windows color scheme
 - **Security Mechanism**—One:
 - Standard NTLM— For stand-alone implementations
 - External Authentication—For use with Shared Services
- 3 In **Configuration File**, verify the CSS version.
- 4 **Optional:** In **Language settings**, change languages for the Strategic Finance component as follows:
 - **Administrator**—Click browse, then see [“Defining Language Settings” on page 27](#).
 - **Server**—Click browse, then see [“Defining Language Settings” on page 27](#).

Defining Language Settings

► To change languages:

- 1 Select **Server**, then **Settings**.
- 2 Select a language.
- 3 If you installed a language while Strategic Finance is running, click **Refresh**.
- 4 Click **OK**, then restart the server.

Defining System Event Log Settings

Define system event log settings to specify data to capture in logs.

► To configure event log settings:

- 1 Select **Server**, then **Settings**, and then **System Events**.
- 2 Make these optional selections:
 - **Enter Number of Days to Retain Logs**—Days (up to 30) to keep server event logs
 - **Event Logging On** —Enable event logs
 - **Access**—Database activity to log:
 - Database Add/Delete — Creation or deletion
 - Modify Access — Modification

- **Change Ownership** — Ownership changes
- **System Activities**—Activity, such as user logins or license changes, to record in logs.

Defining Entity Event Log Settings

Define entity event log settings to specify what entity-related activities are recorded in logs.

► To configure event log settings:

- 1 Select **Server** then **Settings**, and then **Entity Events** .
- 2 Select the kind of actions to record, such as **Entity Modify** to track changes to entities.

Defining E-mail Settings

Use these settings to send e-mail when data is successfully or unsuccessfully exported.

► To configure notifications:

- 1 Select **Server**, then **Settings**, and then **Email Configuration** .
- 2 In **SMTP Server**, enter the email server IP address.
- 3 In **Sender Email Address**, enter the destination email address.
- 4 In **Sender Name**, enter the name of the person to email.
- 5 Specify how to send email notifications if initial email is undelivered:
 - **Number of Retries for Email Failures**—Number of further notifications
 - **Under Retry Frequency for Email Failures**—How often to send notifications
- 6 If the email server requires a username and password, select **My server requires authentication** and provide the required credentials.
- 7 Clear **Usernames or passwords deleted**.

Defining Advanced Register Entry Settings

Caution! Oracle urges you to consult EPM System Support before applying advanced settings that could adversely impact models.

► To define register entries:

- 1 Select **Server**, then **Settings**, and then **Advanced**.
- 2 **Optional:** In **Max number of worker processes**, enter a number for the `MaxBackgroundWorkers` register.

This defines the slots available for simultaneous and lengthy background processes such as database exports, server consolidations, and Entity Change Manager runs. If the number for these processes exceeds `MaxBackgroundWorkers`, new processes are queued until a `BackgroundWorker` slot becomes available. Use these equation to estimate the `MaxBackgroundWorkers` setting:

- For consolidation-intensive servers: (Number of Physical Processors) - 1
- For database export-intensive servers: 2 x (Number of Physical Processors)

3 Optional: In Maximum Intensive Requests, enter a number for the `MaximumIntensiveRequests` register.

This defines the number of server slots available for large file operations, such as Entity Check-in/-out. It also enables the server to consolidate resources. If the number of large file operations exceeds that of `MaximumIntensiveRequests`, users are instructed to try again later. Use this calculation to estimate `MaximumIntensiveRequests`, where Max. Memory is 2048 MB:

$(\text{Avg. file size} \times 2) / (\text{Max. memory} - 100 \text{ MB})$

4 In Minimum Free Memory in KB, note the minimum memory designated for the HSF Service. The HSF Service buffer size guardings against virtual memory loss.

5 From Error Trace Level, select an option for that determines the information logged in:

`%EPM_ORACLE_HOME%\products\hsf\HSFData\Admin\Default.log.`

- Normal — Nothing
- Info — Log actions
- Error — Log errors

6 In Most Recent Used File List Size, specify how many entities are held open in the server in-memory cache. Increase this number accelerate data access in recently used-files.

7 In Archive Warning Level, specify how to override the archive check if you keep archives without running the archive repair:

- Silent—Override archive check, enable out-of-synchronization archives
- Warn—Eanble out-of-synchronization archives, but log archive openings
- Block—Prevent use of the archive

8 If entities are children of parents in Strategic Finance, a reference to parent is stored in `EntityParentID` in the Entity table. If this attribute must be NULL in exports, select **Insert NULL for root parent in Extended Analytics.**

9 In Database Export Package, select HSFService or AlcarService used to export data.

10 In Minimum Free Disk Space in MB note the minimum free disk space required for operation.

11 In Server RPC Port Number, note the Remote Procedure Call port used in client-server communication.

12 In Server ID, view the unique server ID used in entity checkins and checkouts.

13 In Highest Current Entity ID Number, specify the greatest entity ID of all entities.

Importing and Exporting Server Information

Transfer server information between servers by importing or exporting. Information you export is written to an .xml file that you can import to another server.

- ▶ To transfer information between servers:
 - 1 **Perform a task:**
 - To export, select **Server**, then **Export Server Info**.
 - To import, select **Server**, then **Import Server Info**.
 - 2 In **Export server settings to** and **Import server settings from**, specify the file path and associated .xml file.
 - 3 Click **OK** twice.

Configuring Connections to External Staging Databases

You must set external database connectivity for connecting with staging databases.

- ▶ To configure external connection settings:
 - 1 Select **Server**, then **External Connection Settings**.
 - 2 Select a connection type.
 - 3 Click **OK**.

Assigning Server Permissions

User preferences determine access to servers.

- ▶ To specify server user preferences:
 - 1 Select **Server**, then **User Preferences**.
 - 2 Select or add a user.
 - 3 Select **Edit Server Information in Summary Information** to enable users to modify entity information in the **Summary Information** dialog in the client.
 - 4 Select **Open ALS file** to enable users to open local files on the client.
 - 5 Click **Close**, then restart the server.

4

Working With Databases

In This Chapter

Managing Databases	31
Exporting Entities to External Databases.....	33
Exporting to Essbase.....	36
Integrating with EPM System Products.....	51

All entities, consolidation structures, ECM documents, maps and batches used in models are stored in database on the Strategic Finance server. However, you can create and use these databases to leverage your Strategic Finance data:

- Essbase databases to further analyze your data
- Export databases
- External RDBMS databases

Managing Databases

Subtopics

- [Creating Strategic Finance Client Databases](#)
- [Creating Databases from Consolidation Labels](#)
- [Switching Databases](#)
- [Deleting Databases](#)

Creating Strategic Finance Client Databases

You can create databases for Strategic Finance clients as follows:

- Create empty databases
- Copy and rename databases
- Use consolidation labels

➤ To create databases:

- 1 In the Administrator, select **Databases**.

- 2 Select **Database**, then **Add**.
- 3 Enter a unique name.
- 4 Under **Create Database**, select a method:
 - From scratch—Create an empty database
 - As a copy of an existing database—Replicate an existing database
- 5 Click **OK**.

Creating Databases from Consolidation Labels

If you label consolidation runs in the Strategic Finance client, you cannot change the data or rerun the consolidation under the label. Use the Administrator to create databases based on labels. This enables you to make changes or perform consolidation runs using the copy based on the label. When you create consolidation labels, you can create this database for use as a starting point in modifying the consolidation.

► To create databases from labels:

- 1 In Administrator, select **Databases**.
- 2 Select **Database**, then **Create from Label**.
- 3 Enter a name.
- 4 Select the consolidation label.
- 5 Under **Archives to include**, define how many versions of each entity to include in the new database:
 - Current Version—Include only the latest archive
 - Most recent archives—Specify the number of archives
 - All Archives—Include all
- 6 Click **OK**.

Switching Databases

► To switch database:

- 1 From Administrator, select **Server**, then **Change Database**.
- 2 Select a database.
- 3 Click **Make Default** to designate this as the default database.
- 4 Click **OK**.

Deleting Databases

► To delete databases:

- 1 In the Administrator, select **Databases**.
- 2 Select a database.
- 3 Select **Database**, then **Delete**.

Exporting Entities to External Databases

Before exporting entities to external databases, define the required rule sets. See “[Defining Rule Sets](#)” on page 19. For information about the database tables you can export, see “[The Export Database Tables](#)” on page 34.

For information about exporting consolidated metadata to Essbase, see the *Oracle Hyperion Strategic Finance User Guide*.

Connecting to External Databases

► To create external database connections:

- 1 In Administrator, select **Databases**.
- 2 Select **Database**, then **External Database**.
- 3 Select a database.
- 4 In **Connection Type**, select an option:
 - **Export** — Connect to a database that will house Strategic Finance export data
 - **Import** — Connect to a database that will house data to import
 - **Extended Analytics** — Connect to an Extended Analytics (Essbase) database.See “[Creating Extended Analytics Rule Sets](#)” on page 39 and “[Exporting to Essbase](#)” on page 36.
- 5 In **Data source**, enter the ODBC datasource name or the connection string for the Extended Analytics database:

Table 3 Connection Syntax

Database	Connection Strings
SQL Server	Provider='SQLOLEDB';Server='{hostname}';Database='{Database name}';
Oracle	Provider='OraOLEDB.Oracle';Data Source='{SID}'; Provider='OraOLEDB.Oracle';Data Source='{database name}'; HOST='{hostname}'; Note: Do not use the Initial Catalog variable

Database	Connection Strings
IBM DB2	<pre>Provider='IBMDADB2';Database='{database name}';Hostname='{hostname}';Protocol=TCPIP; Port=50000;QUOTED_IDENTIFIER=off; Provider='IBMDADB2';Data Source='{database name}';Persist Security Info=True;QUOTED_IDENTIFIER=off;</pre>

- 6 In **User I.D.**, enter the user name or owner for the destination database.
- 7 In **Password**, enter the password for the target database.
- 8 In **Rule Set Name**, enter the rule set to transfer
- 9 In **Email Addresses** , enter the email addresses to send transfer error messages.
- 10 Select **Database Connectivity Enabled** to enable the database connection.
- 11 Click **OK**.

The Export Database Tables

Subtopics

- [Financial Data Available](#)
- [Entity Scalar](#)
- [Variable and Account Information](#)
- [Financial Variable](#)
- [Alcrdt Translation](#)

Financial Data Available

This table stores header information about each transaction and contains source entity and database data.

Table 4 The Financial Data Available Table

Attribute	Data Type	Definition
Transaction Id	bigint	Identifies the transaction
Checked In User Id	varchar	The last user to check the entity in to the server
Data Available Dt	datetime	The data that is available
Alcar Db	varchar	The source Strategic Finance database
Entity Id	int	Identifies the entity
Entity Name	varchar	The entity name
Records Expected	int	The records that should be present
Transaction State Cd	char	The transaction state

Attribute	Data Type	Definition
Transaction Error Cd	int	Errors
Transaction Type	char	The transaction type
Parent Transaction Id	varchar	The transaction ID related to the parent entity

Entity Scalar

This table contains scalar values not tied to time periods.

Table 5 The Entity Scalar Table

Attribute	Data Type	Definition
Transaction Id	bigint	Identifies the transaction
Variable Id	bigint	Identifies the variable
Result	varchar	Data if value is alphanumeric
Result Numeric	decimal	Data if value is a number

Variable and Account Information

This table contains account data.

Table 6 The Variable Info Table

Attribute	Data Type	Definition
Transaction Id	bigint	Identifies the transaction
Variable Id	bigint	Identifies the variable
Variable Desc	varchar	Text description of variable
Native Data Type Cd	char	Code for the native data type
Aggregation Rule Cd	char	Code for the aggregation rule
Item Scale Cd	char	Code for the scale
Display Scale	decimal	Scale for display of output

Financial Variable

This table contains financial values with each row having a single exported cell from Strategic Finance.

Table 7 The Financial Variable Table

Attribute	Data Type	Definition
Transaction Id	bigint	Identifies the transaction
Variable Id	bigint	Identifies the variable
Scenario Name	varchar	The scenario of the exported financial model
Fin Fact Alcrdt	varchar	Financial fact
Scenario Type Desc	varchar	Description of the scenario
Result	varchar	Data if value is alphanumeric
Result Numeric	decimal	Data if value is a number

Alcrdt Translation

This table translates Strategic Finance date labels into calendar dates.

Table 8 The Alcrdt Transaction Table

Attribute	Data Type	Definition
Transaction Id	bigint	Identifies the transaction
Fin Fact Alcrdt	varchar	Financial fact
Period End Dt Txt	datetime	Ending period
Period End Dt Txt	varchar	Ending period in Strategic Finance entity
Data Source	char	Source of the data

Exporting to Essbase

Use External Analytics to export a group of entities as a star schema to relational databases, for use by other EPM System products. This enables you to leverage and maximize your data as follows:

- You can use the robust and diverse reporting features available to EPM System models. Many EPM System products can report directly from the star schema data. See [“Reporting Utilities for Extended Analytics” on page 37](#).
- You can use Oracle Essbase Integration Services reporting functionality from the star schema database to transfer data to a multidimensional Essbase database that other EPM System products, such as Financial Reporting, can use to report. See [“Reporting Utilities for Extended Analytics” on page 37](#).

You can also create a Strategic Finance reference database and copy the entities from multiple Strategic Finance databases for reporting to a central location. Because these entities are isolated, you can change the numbers in the financial models to analyze possibilities without affecting your production data. You can refresh referenced entities.

Reporting Utilities for Extended Analytics

You can use these EPM System products with the star schema server, or with Essbase:

Table 9 EPM System Products Supporting Star Schemas and Essbase

EPM System Module	Relational Database (Star Schema)	Essbase Oracle Essbase Integration Services
Oracle Hyperion Interactive Reporting	Yes	No
Oracle Hyperion Smart View for Office	No	Yes
Oracle Hyperion Financial Reporting	No	Yes
Web Analysis	No	Yes

Using Extended Analytics

► To use Extended Analytics:

- 1 **Optional:** Create a reference database.
See [“Optional: Creating Reference Databases and Entities”](#) on page 42.
- 2 Create an empty relational database.
- 3 Create an Essbase external database connection. See [“Connecting to External Databases”](#) on page 33.
- 4 Configure the external Essbase database (Star Schema). See [“Creating Extended Analytic Tables ”](#) on page 38 .
- 5 Define the time periods, accounts, and general information for the export in the Extended Analytics rule set. See [“Creating Extended Analytics Rule Sets”](#) on page 39.
- 6 Specify the entities to export. See [“Optional: Creating Reference Databases and Entities”](#) on page 42.
- 7 **Optional:** Export from the relational database to Essbase.

Permitting user rights for Extended Analytics database

The Extended Analytics database user must be configured with the following permission:

- * ALTER

- * SELECT
- * CREATE
- * UPDATE
- * INSERT
- * DELETE
- * CONNECT
- * (SQL Server) VIEW
- * (Oracle DB) RESOURCES
- * (Oracle DB) UNLIMITED TABLESPACE
- * (Oracle DB) DROP

This may be accomplished by assigning the user to a database role or through individual permission grants. Oracle recommends the role of Administrator for OracleDB and db_owner for SQL Server.

Creating Extended Analytic Tables

► To create Extended Analytics tables:

- 1 **Select Databases**
- 2 **Double-click a database.**
- 3 **Select Database, then Extended Analytics.**
- 4 **Under User-Defined Columns for Entity Table, create user-defined columns.**

Use User-Defined Dimensions tables to filter data, for client-defined field, or scalar accounts in Strategic Finance. See [“Uddim Tables 1-4” on page 46](#).

- In **Column to Add**, enter name.
- In **Column Data Type**, select a data type.
This must match the data type in the corresponding account in Strategic Finance.
- To add the column, click >.
- To remove a column, select one and click <.
- Up to 20 user-defined columns
- User-defined columns are in the Entity Table of the star schema database. See [“Entity Table” on page 44](#).
- After user-defined columns are created, [“Specifying AccountOptions” on page 39](#) includes an option for mapping accounts from the source Strategic Finance entity to the star schema database.

5 To enable users to export consolidation metadata, select **Enable EA Consolidation Tables**.

6 **Click Create Tables.**

- 7 Click **OK**.

Creating Extended Analytics Rule Sets

Define Essbase rule sets to specify the entity metadata to export.

- To create Extended Analytics rule sets:
 - 1 Select **Databases**.
 - 2 Double-click a database.
 - 3 Select **Database**, then **Extended Analytics**, and then **Rule Sets**.
 - 4 See:
 - “[Specifying General Options](#)” on page 39
 - “[Specifying Account Options](#)” on page 39
 - “[Specifying Time Options](#)” on page 40
 - “[Specifying Scenarios Options](#)” on page 41
 - “[Specifying Custom Dimensions](#)” on page 41

Specifying General Options

- To select general options:
 - 1 Access **Edit Rule Set**.
See “[Creating Extended Analytics Rule Sets](#)” on page 39.
 - 2 Select **General**.
 - 3 Select **Export Entity on Create** to export entities when they are created.
 - 4 Select **Do not export when funds flow out of balance** to block exporting when funds flows are unbalanced.
 - 5 Select **Calculate Scenarios on Export** to calculate all scenarios before exporting.

Note: This is required unless Scenario Manager on the Strategic Finance client is configured to use the Store outputs for all accounts on the Outputs tab.

Specifying Account Options

Use the Accounts tab to define the Accounts table—see “[The Extended Analytics Star Schema](#)” on page 43.

- To select accounts:
 - 1 Access **Edit Rule Set**.

See [“Creating Extended Analytics Rule Sets”](#) on page 39.

- 2 **Select Accounts.**
- 3 **Browse to entities.**
- 4 To add accounts, in **Time Period Accounts**, select accounts and click **>**.
- 5 **Map user-defined columns in the star schema database with scalar values in the source Strategic Finance entity:**
 - To add accounts, in **Entity Scalar Accounts**, select accounts and click **>**.
 - For each account number in **Account ID**, enter the corresponding target column name in **Entity Table Column Label**.
 - This maps scalar values from the Strategic Finance entity to any columns in [“Creating Extended Analytic Tables”](#) on page 38.
 - These mappings populate custom columns in the Entity Table of the star schema database. See [“Entity Table”](#) on page 44.

Specifying Time Options

Use the Time tab to select the time periods to populate the Time table—see [“The Extended Analytics Star Schema”](#) on page 43.

► To select time periods:

- 1 **Access Edit Rule Set.**

See [“Creating Extended Analytics Rule Sets”](#) on page 39.

- 2 **Select Time.**

- 3 **Select any of these options:**

- **Beginning Boundary** and **Ending Boundary**—Enter the start and end times.

You can set boundaries using the time codes. For example, if an entity is in quarters, the time codes might be Q04 (first quarter of 2004), 2Q04, 3Q04, and 4Q04. You can set boundaries using functions. For example, yenter “@firstpd” in the **Beginning Boundary** and “@lastpd” in the **Ending Boundary** box to export the entire entity. See [“Using Time Functions”](#) on page 22

- **Synthesize by Aggregate only**—Roll-up time periods. For example, week roll-up into months.
- **Export Trailing Periods if Present**—Include trailing periods.
- **Export Closing Periods if Present**—Include closing periods.
- **Export Deal Periods if Present**—Include deal periods.

- 4 **In Time Period**, select time periods to include.

Time periods are based on scale:

- a. In **Include**, select a time period scale.

- b. Specify any of these optional settings:
 - **Synthesize Period**—Time periods that do not exist in the source entity, but must be created for the destination entity. If the source and target are in different time scales, select a scale to extrapolate from existing information into missing time periods.
 - **Period to Date**—Time periods for which to generate period to date information. If no Period to Date information exists in the entity, this option synthesizes the information. For example, for an export to contain Period to Date information for each week, select the Week option.

Specifying Scenarios Options

Use the Scenario tab to select the scenarios to add to the Scenario table of the star schema database—see [“The Extended Analytics Star Schema” on page 43](#).

► To select scenarios:

- 1 **Access Edit Rule Set.**

See [“Creating Extended Analytics Rule Sets” on page 39](#).

- 2 **Select Scenarios.**

- 3 For each type under **Scenario Type**, specify when to export scenarios in **When to Export**:

Note: See [“Working With Scenario Types” on page 26](#).

- **Never** — Do not export
- **Always**—Upon entity checkin
- **At Audit Point**—When audit point archived

Specifying Custom Dimensions

Use the Custom Dimensions tab to assign the dimensions to populate the User-Defined Dimensions table of the star schema database—see [“The Extended Analytics Star Schema” on page 43](#).

► To select dimensions:

- 1 **Access Edit Rule Set.**

See [“Creating Extended Analytics Rule Sets” on page 39](#).

- 2 **Select Custom Dimensions.**

- 3 Enter the dimension structure, for example:

- User Defined Dimension 1: ‘Product’
- User Defined Dimension 2: ‘Region’

- User Defined Dimension 3: 'Division'
- User Defined Dimension 4: 'Team'

Optional: Creating Reference Databases and Entities

To ensure data integrity by isolating the original production data, create a reference database. Reference entities have links to production entities so you can refresh them with production data.

► To create reference databases and entities:

1 **Select Databases.**

2 **Create database.**

See "[Creating Strategic Finance Client Databases](#)" on page 31.

3 **In Databases**, double-click the database.

4 **Select Database** then **Entity Reference**.

5 **In Select Database**, select the source database.

6 **Optional: In Existing Entities**, select entities and click >.

7 **Optional: In Existing Entity Groups**, select entity groups and click >.

8 **Refresh entities:**

- To refresh all entities, click **Refresh All**.
- To refresh some entities or entity groups, select them and click **Refresh Selected**.

9 **Click OK.**

The Extended Analytics Star Schema

Subtopics

- [Fact Table](#)
- [Header Table](#)
- [Analysis Table](#)
- [Entity Table](#)
- [Scenario Table](#)
- [Account Table](#)
- [Time Table](#)
- [Uddim Tables 1-4](#)
- [Transaction Table](#)
- [Analysis Table](#)
- [CN_GRP_Equity Table](#)
- [CN_GRP_Blocked Table](#)
- [CN_GRP_Elim Table](#)
- [CN_ATTR_Parent Table](#)
- [CNS_ATTR_Child Table](#)
- [CN_Scenario Table](#)
- [CN_Entity Table](#)
- [CN_Structure](#)

The data you export to Essbase star schema databases or to supported databases for extended analytics, is provided in the tables in the following sections

Fact Table

Fact is the central control table, relating all other tables. It coordinates the other star schema tables to create and populate multidimensional databases in Essbase. The Fact table contains the exported data—each row is a single data cell, using the names stored in the outlying tables.

Table 10 The Fact Table

Attribute	Data Type	Definition
AnalysisID	int	References the Analysis table.
EntityID	int	References the Entity table.
ScenarioID	int	References the Scenario table.
AccountID	int	References the Account table.
TimeID	int	References the Time table.
UDDim1	int	References the User-Defined Dimension table 1.
UDDim2	int	References the User-Defined Dimension table 2.
UDDim3	int	References the User-Defined Dimension table 3.

Attribute	Data Type	Definition
UDDim4	int	References the User-Defined Dimension table 4.
DataValue	numeric	Stores numeric values
DataStringValue	nvarchar	Stores string values

Header Table

The Header table stores heading information for the entity and User-Defined Dimension tables.

Table 11 The Header Table

Attribute	Data Type	Definition
HeaderID	int	A key identifying a specific header.
HeaderName	nvarchar	Stores this data: <ul style="list-style-type: none"> ● 0: The rule set name (database name). ● 1- 4: Store the name of each User-Defined Dimension. See “Uddim Tables 1-4” on page 46.
HeaderValue	nvarchar	The header string

Analysis Table

The Analysis table stores information identifying a specific analysis.

Table 12 The Analysis Table

Attribute	Data Type	Definition
AnalysisID	int	A key identifying a specific analysis.
AnalysisLabel	nvarchar	The label string.

Entity Table

Identifies the source entity in Strategic Finance.

Table 13 The Entity Table

Attribute	Data Type	Definition
EntityID	int	A key identifying a specific entity within the table.
EntityLabel	nvarchar	A string storing a label for the entity.
ServerID	nvarchar	A string identifying the Strategic Finance server containing the entity.
DatabaseName	nvarchar	A string identifying the source database containing the entity.

Attribute	Data Type	Definition
EntityParentID	int	For child entities in the Strategic Finance database, this is a key referencing the parent entity.
EntityParentLabel	nvarchar	A string storing a label for the parent entity.
<i>User-defined columns</i>	<i>varies</i> The same data type in source entity.	This table stores each of up to 20 custom columns. <ul style="list-style-type: none"> ● See “Creating Extended Analytic Tables” on page 38. ● See “Specifying AccountOptions” on page 39.

Scenario Table

Identifies the scenarios in the entity.

Table 14 The Scenario Table

Attribute	Data Type	Definition
ScenarioID	int	A key identifying a specific scenario in the table.
ScenarioLabel	nvarchar	A string storing the name of the scenario.
ScenarioType	nvarchar	A string storing a description of the scenario.

Account Table

Identifies the accounts in the entity.

Table 15 The Account Table

Attribute	Data Type	Definition
AccountID	int	A key identifying a specific account in the entity.
AccountLabel	nvarchar	A string containing the name of the account.
NativeDataType	nvarchar	Indicates the data type stored in the account. Valid Values: <ul style="list-style-type: none"> ● N - number ● S - string

Attribute	Data Type	Definition
AggregationRule	nvarchar	Stores the aggregation rule. Valid Values: <ul style="list-style-type: none"> ● N Non-account ● B Balance ● F Flow account ● A Rate ● D Discount rate ● R - r Ratio
AccountParentID	int	For related accounts and subaccounts, this stores the key of the account to which this specific account aggregates.

Time Table

Identifies the time periods used in the entity.

Table 16 The Time Table

Attribute	Data Type	Definition
TimeID	int	A key identifying a specific time period.
TimeLabel	nvarchar	A string name for the time period.
RealTime	datetime	A value indicating if the time period is real time.
TimeParentID	int	If a time period aggregates to another, this stores the key of the aggregating time period.
TimeSiblingSortOrder	int	If time periods are sibling, this stores the order in which they belong.

Uddim Tables 1-4

Identifies User-Defined Dimensions in the entity.

Table 17 Uddim Table 1-4

Attribute	Data Type	Definition
MemberID	int	A key identifying a specific dimension value.

Attribute	Data Type	Definition
MemberLabel	nvarchar	A string storing the dimension value.
ParentID	int	A reference to the parent dimension key.

Transaction Table

Identifies transaction for the entity at its state upon export.

Table 18 The Transaction Table

Attribute	Data Type	Definition
TransactionID	int	A key identifying a specific transaction.
HSFTransID	nvarchar	Identifies the transaction number of the export transaction in Strategic Finance.
AnalysisID	int	A reference to the Analysis table.
ExportDate	int	The date of export.
HSFArchiveNumber	int	Stores the archive number.
UserName	nvarchar	Stores the username of the user who performed the transaction.
ServerID	nvarchar	A string identifying the source Strategic Finance server.
DBName	nvarchar	A string identifying the source database.
PushType	nvarchar	Identifies the event triggering the transaction. For example, consolidation run, entity check in, etc.

Analysis Table

The Analysis table stores information identifying a specific analysis.

Table 19 The Analysis Table

Attribute	Data Type	Definition
AnalysisID	int	A key identifying a specific analysis.
AnalysisLabel	nvarchar	The label string.

CN_GRP_Equity Table

This table describes the equity subaccount groups rolled up into the specified parent equity subaccount. This table is linked to the Child Attributes table.

Table 20 The CN_GRP_Equity Table

Name	Type	Null	Key	Description
ID	Integer	N	PK	
name	nvarchar(255)	N	—	Equity account group name
child_attr_id	Integer	N	FK	Foreign key to the owning CN_ATTR_CHILD row

CN_GRP_Blocked Table

Each row in this table describes the blocking groups defined in the parent attributes for an entity scenario. These groups define a set of accounts that are not rolled up to the parent, so the parent retain its value prior to consolidation. Block assumptions to be modeled at the parent entity by account group. For example, to model debt and equity at a consolidated level, create an account group for these accounts at the Parent and block it. Otherwise, the accounts consolidate from the child entities, overriding data entered at the parent entity. This can also be used for assumptions like tax rate, prices, cost of capital. that should not add up from child entities. The blocking groups selected in the parent attributes can be either system or user-defined account groups.

Table 21 The CN_GRP_Blocked Table

Name	Type	Null	Key	Description
ID	Integer	N	PK	
name	nvarchar(255)	N	—	Name of group to block
is_sys_grp	nchar(1)	N	—	Indicates if the group is system or user-defined 0 = No, 1 = Yes
parent_attr_id integer N FK	Integer	NK	FK	Foreign key to the owning CN_ATTR_PARENT row

CN_GRP_Elim Table

Each row in this table describes the elimination groups defined in the parent attributes for the given entity scenario. These groups define a set of accounts that are not rolled up to the parent, such as intercompany accounts that should not be reported at the parent level.

For children, account groups to eliminate are created in the Child entities .For example, if v1000 is in Child A,B, and C, is included in an Account Group called "Eliminations" in only in children A and B, and selected in the Parent Attributes as an eliminations group based on child, then v1000 from Children A and B will eliminate, but Child C will consolidate. For parents, parent elimination account group(s) are created at the Parent and selected in Parent Attributes. Any accounts in these groups will be automatically zeroed out at the parent.

Table 22 The CN_GRP_Elim Table

Name	Type	Null	Key	Description
ID	Integer	N	PK	
name	nvarchar(255)	N	–	Name of the group to eliminate
parent_attr_id	Integer	N	FK	Foreign key to the owning CN_ATTR_PARENT row

CN_ATTR_Parent Table

This table describes the parent attributes, if applicable, for the entity scenario and the roll-up contribution to the parent. The root entity of the consolidation does not define parent attributes for its scenario rows and will not contain an entry in this table. Each row additionally describes the periods that were preserved and not rolled up to the parent. This Preserve Periods setting defines blocking by time period, and keeps inputs for time periods that are excluded from those in the consolidation. For example, if child entities started consolidating in 2007, but the parent had data for 2005 and 2006, select Preserve Periods when you export to to keep data for 2005 and 2006.

Table 23 The CNS_ATTR_Parent Table

Name	Type	Null	Key	Description
ID	Integer	N	PK	
preserve_pds	nchar(1)	N	–	The periods not rolled up to the parent and are not zeroed out. Either the inputs or output are preserved. [I]nput, [O]utput, [N]one
basis	nchar(1)	N	–	[C]hild, [P]arent

CNS_ATTR_Child Table

Each row in this table describes child attributes, if applicable, for the entity scenario and the roll-up contribution to the parent. The leaf entities of the consolidation do not define child attributes for their scenario rows and do have entries in this table. Each row in this table additionally defines the consolidation method used for the roll-up, the period range, the ownership percentage, and an equity subaccount

Table 24 The CNS_ATTR_Child Table

Name	Type	Null	Key	Description
ID	Integer	N	PK	
method	nchar(1)	N	–	The scenario roll-up method: S]imple, [C]ost, [E]quity, Minority [I]nterest
percentage	float	N	–	The percent contribution to parent rollup
first_period	nvarchar(255)	N	–	

Name	Type	Null	Key	Description
last_period	nvarchar(255)	N	–	
equity_subacct	nvarchar(255)	Y	–	

CN_Scenario Table

This table contains information about the scenarios for entities in a consolidation. It indicates scenario involvement in the entity roll-up, and referencing foreign keys, such as those for child and parent attributes. The root entity of the consolidation does not define parent attributes for any scenario rows. Conversely, leaf entities in the consolidation do not define child attributes for any scenario row, and contain a NULL as the child id FK

Table 25 The CN_Scenario Table

Name	Type	Null	Key	Description
ID	Integer	N	PK	
name	nchar(1)	N	–	Name of the scenario
parent scenario	float	Y	–	Name of the parent scenario
excluded	nvarchar(1)	N	–	Indicates if the scenario was used in the entity roll-up: 0 = No 1 = Yes
parent_attribute_id	Integer	Y	FK	Foreign key to the owned CN_ATTR_PARENT row
child_attr_id	Integer	Y	FK	Foreign key to the owned CN_ATTR_CHILD row
entity_id	Integer	N	FK	Foreign key to the owning CN_ENTITY row

CN_Entity Table

This table contains rows for each entity in the consolidation hierarchy. Parent child relationships among entities in the hierarchy are described by the value in the parent_entity_id column. If this value is -1, the current row is the root of the hierarchy. If the same entity is involved in the consolidation, but under another parent, two separate rows represent the entities involvement for each parent. Each row indicates if the entity was included in the consolidation and foreign key referencing the consolidation structure it belongs to.

Table 26 The CN_Entity Table

Name	Type	Null	Key	Description
ID	Integer	N	PK	
name	nchar(225)	N	–	Name of the entity
excluded	nvarchar(1)	N	–	Indicates if the entity was involved in the consolidation: 0 = No 1 = Yes
parent_entity_id	Integer	N	RK	ID column in the CN_ENTITY table that represents the parent entity

Name	Type	Null	Key	Description
structure_id	Integer	N	FK	Foreign key to the owning CN_STRUCTURE row

CN_Structure

This table contains basic, top-level consolidation structure data. Each row is referenced by at least two rows in the CN_ENTITY table and can be used to filter and identify entities relating to a specific consolidation.

Table 27 The CN_Structure Table

Name	Type	Null	Key	Description
ID	Integer	N	PK	
name	nchar(225)	N	—	Name of the consolidation
label_name	nvarchar(1)	N	—	Name of the label

Integrating with EPM System Products

Subtopics

- [Requirements](#)
- [Automating Batch Exports to Essbase and Planning](#)
- [Integrating with FDM](#)

Requirements

To ensure data integrity and system robustness, install the Strategic Finance server on a dedicated computer.

To use Strategic Finance with other EPM System products, install and configure Shared Services as described in the *EPM System Installation and Configuration Guide*.

Note: If you upgraded to or installed release 11.1.2.1 of Hyperion Enterprise or Financial Management, confirm that they successfully integrate with Strategic Finance. If integration fails, see [“Oracle EPM Product Integrations” on page 100](#).

Financial Management

To share data between Strategic Finance and Financial Management perform these tasks:

- Install the Financial Management client on the same computer as the Strategic Finance server and configure for single sign-on.

- Install the Financial Management Client on the same computer as the Strategic Finance client and configure for single sign-on.
- Install and configure the Strategic Finance adapter for Oracle Hyperion Financial Data Quality Management.

Essbase and Planning

The share data between Strategic Finance, Planning, and Essbase, install Planning and the Essbase Windows Client on the computers hosting the Strategic Finance Server and the Strategic Finance Client. To fully maximize the tasks you can perform using Strategic Finance data in Essbase, also install these products:

- Oracle Hyperion Interactive Reporting Web Client
- Oracle Hyperion Smart View for Office
- Oracle Hyperion Financial Reporting
- Oracle Hyperion Web Analysis Studio

Automating Batch Exports to Essbase and Planning

You can configure entities to automatically export to Oracle Essbase or Planning whenever they are modified and updated on the Strategic Finance server.

► To automate export to Essbase and Planning:

- 1 In **Administrator**, select **Databases**.
- 2 In **Databases**, select a database.
- 3 Select **Database**, then **Automatic Export**.
- 4 On **Export on Check in**, select **Automatically export to Planning/Essbase on check in**.
- 5 In **Batch to reference**, select a batch and click **OK**.

Integrating with FDM

This product is an out-of-the-box data transformation tool that provides source-level financial data to consolidation, reporting, planning, and analytical applications. By providing an audit trail to source financial data, helping to ensure data integrity and mapping consistency that enables easy reconciliation of financial data.

Strategic Finance uses FDM as a data-import source—so you can create Strategic Finance financial models based on any data source open to FDM:

- ERP systems
- Flat files
- Relational database systems
- Microsoft Excel

Configuring for Integration

► To configure FDM integration:

- 1 In the Strategic Finance Administrator, select **Databases**.
- 2 In **Databases**, select a database.
- 3 Select **Database** then **FDM Settings**.
- 4 On **FDM Settings**, enter:
 - The **Adapter Name**.
 - The application name in **Application Name**.
- 5 Click **OK**.
- 6 Navigate to `%EPM_ORACLE_HOME%\products\hsf\bin`, and copy `HSFHFMLink_A.dll` to `HSFHFMLink.dll`.

Using Drill-Back Analysis

Right-click cells containing data imported through FDM to use the Audit Intersection to find the data source. Cells with data imported through FDM are marked with a magenta tick mark in the lower-right corner. Audit Intersection launches a web browser accessing Oracle Hyperion Financial Data Quality Management, where you can find details about the data load, data mapping, and drill into the source.

5

Managing Entities and Entity Groups

In This Chapter

Managing Entities	55
Managing Entity Groups	57
Setting Entity Check-In Rules and Managing Archives	58

Entities are Strategic Finance (*.a1c) files stored in the server. Use entity groups to bulk-manage entities.

Before accessing entities, select a database.

Managing Entities

Subtopics

- [Accessing Entities](#)
- [Changing Entity Owners](#)
- [Breaking Entity Locks](#)
- [Manually Exporting Entities](#)
- [Manually Exporting Extended Analytics](#)
- [Converting Entities After an Upgrade](#)

Accessing Entities

► To access entities:

- 1 In Administrator, select **Database**.
- 2 Double-click a database.
- 3 Select **Entities**.

Changing Entity Owners

- To change entity owners:
 - 1 In **Administrator**, select **Entities**.
 - 2 Select an entity or batch.
 - 3 Select **Edit** and then **Owner**.
 - 4 In **Domain Name for New Owner**, enter the network domain.
Click **Browse** to search.
 - 5 In **User Name for New Owner**, enter a user name.
 - 6 Click **OK**.

Breaking Entity Locks

- To break entity locks:
 - 1 In **Administrator**, select **Entities**.
 - 2 Select the locked entity in the entity tree.
 - 3 Select **Edit** and then **Break Lock**.

Manually Exporting Entities

- To export entities:
 - 1 Select **Entities**.
 - 2 Select an entity.
 - Press <Shift> to select a range of entities.
 - Press <Ctrl> to select specific entities.
 - 3 Select **Edit** and then **Export**.

Manually Exporting Extended Analytics

- To manually export entities to Extended Analytics:
 - 1 Select **Entities**.
 - 2 Select an entity.
 - Press <Shift> to select a range of entities.
 - Press <Ctrl> to select specific entities.
 - 3 Select **Edit** and then **Extended Analytics Export**.

Converting Entities After an Upgrade

In upgrading from Alcar versions 2.x or 6.x, use the convert feature to upgrade existing data.

- [“Converting Database Entities in Bulk” on page 57](#)
- [“Converting Selected Entities” on page 57](#)

Converting Database Entities in Bulk

► To convert the entire database in bulk:

- 1 In **Administrator**, select **Entities**.
- 2 Select **Edit**, then **Convert**, and then **All**.

Converting Selected Entities

► To convert only specific entities:

- 1 In **Administrator**, select **Entities**.
- 2 Select one or more entities.
- 3 Select **Edit**, then **Convert**, and then **Selection**.

Managing Entity Groups

Subtopics

- [Adding Entity Groups](#)
- [Editing Entity Groups](#)
- [Deleting Entity Groups](#)

Use entity groups to bulk-manage entity access.

Adding Entity Groups

► To add entity groups:

- 1 In **Administrator**, select **Entity Groups**.
- 2 Select **Group** and then **Add**
- 3 In **Add an Entity Group**, enter a name.
- 4 Click **OK**.
- 5 Add entities.

See [“Editing Entity Groups” on page 58](#).

Editing Entity Groups

► To edit an entity group:

- 1 In **Administrator**, select **Entity Groups**.
- 2 In **Entity Group Name**, select an entity group.
- 3 Select **Group** and then **Edit**.
- 4 In **Edit Entity Group**, add or remove entities:
 - **Entities Available**
Entities that are not part of the group, but may be added. Select one and click **Add>>**.
 - **Group Members**
Entities in the entity group. To remove, select one and click **<<Remove**.
- 5 Click **OK**.

Deleting Entity Groups

This delete all access privileges associated with all of the entities previously in this group. The entities remain.

► To delete entity groups:

- 1 Select **Entity Groups**.
- 2 In **Entity Group Name**, select an entity group.
- 3 Select **Group** and then **Delete**.

Setting Entity Check-In Rules and Managing Archives

Archive and check-in rules are enforced when users check entities in to the server. You can inspect and repair archives.

- [“Setting Entity Check-In Rules” on page 58](#)
- [“Managing Entity Archives” on page 59](#)
- [“Inspecting Entity Archives” on page 60](#)

Setting Entity Check-In Rules

Check-in rules require a user to perform actions when they check in entities.

► To set entity check-in rules:

- 1 In **Administrator**, select **Entities**.

- 2 Select **Edit** and then **Check In Rule**.
- 3 Select the rules:
 - **Require comments at check-in**
Forces users to enter comments explaining the state of the entity before the server allows check-in.
- 4 Click **Close**.

Managing Entity Archives

Archive entity rules define entity version tracking, and can apply to all entities in a database or to a single entity.

► To set archive entity rules:

- 1 In **Administrator**, select **Entities**.
- 2 **Optional:** In the entity tree, select an entity.
To apply archive rules to a specific entity.
- 3 Select **Edit** and then **Archive Rules**
- 4 In **Manage Archive Files**, select an extent for the policy:
 - **Set Default Policy**—Apply the default to all entities
 - **Individual Entity Archive Policy**—Apply to specific entities
- 5 Define if, and when to apply or delete archive rules:
 - **Use Default**—Apply default rules
 - **Delete archive files after this many days**—Delete archives after *<days>*
 - **Keep this many archives**—Number of archives to reserve
 - **Do not delete archive files**—Never remove archived entities
 - **Apply this rule every time the entity is checked in**—Select to automatically purge entity archives according to the selected policy.
- 6 **Optional:** Click **Show only entities that override a default setting** to display only entities with overridden archive policies.
- 7 **Optional:** For damaged archives, select one and click **Repair**.
See [“Inspecting Entity Archives”](#) on page 60.
- 8 Click **Save Settings**.
- 9 Click **Close**.

Inspecting Entity Archives

Strategic Finance uses Archive Repair to fix archive numbers. When archive and version numbers are not synchronization, you cannot open the archive until Archive Repair resynchronizes them. When you run Archive Repair on an archived entity, the proper version numbers are restored and the archive is stored under a new filename.

Caution! There are issues to consider before repairing archives. Consult EPM System support before using Archive Repair.

Because the repaired data is stored under a new filename, you may not want to repair the archive. For example, for FreeStyle Reports using Alias Manager to reference specific archived entities, those references may break with Archive Repair.

- If you repair archives, open the FreeStyle Report and manually change the alias to reference the new filename.
- If you do not repair archives, use them to keep your FreeStyle Reports.

If you do not repair an archive, use the Archive Warning Level to override the archive check—see [“Defining Advanced Register Entry Settings” on page 28](#).

➤ To inspect archives:

- 1 In Administrator, select **Databases**.
- 2 Select a database
- 3 Select **Entities**
- 4 Select an entity.
- 5 Select **Edit** and then **Inspect Archive Contents**.
- 6 **Optional:** Under **Suspect**, verify archive contents.

If an archive has an X under the Suspect column, it is corrupt. To fix these archives, use Archive Repair in [“Managing Entity Archives” on page 59](#).

- 7 Click **OK**.

6

Specifying User and Group Access to Databases and Entities

In This Chapter

Assigning General Database Access	61
Configuring Default Access to Databases, Entities, and Entity Groups	62
Adding Users and Groups to Databases, Entities, or Entity Groups	68

Default database and entity access is determined as follows:

- Owner defines access for database owners
- Default defines access for standard users

Assigning General Database Access

Subtopics

- [Assigning Access for Users and Groups](#)
- [Assigning General Database Options](#)

Assigning Access for Users and Groups

➤ To configure general database access:

- 1 **Select Databases.**
- 2 **Double-click a database.**
- 3 **Select Access and then Database Options.**
- 4 **Select Create / Edit Access.**

Initially only the <Default> user is available.

- 5 **To add users or groups created in Shared Services, select Create then Edit Access.**
- 6 **Optional: To specify database access for the default user, or another user or group, select one in Edit Database Options for <databaseName>:**
 - Select <Default>.
 - Double-click Users or Groups.

7 **Optional:** Configure general database access.

See “[Assigning General Database Options](#)” on page 62.

8 **Optional:** To delete users or groups, select **Edit Database Options for <databaseName>**, select the user or group, and click **Delete**.

Assigning General Database Options

► To configure database general options:

1 In **Create / Edit Access**, select a user or group and click **Edit**.

2 Select **Database General**.

3 Select any option. Most are self-explanatory, but note the following:

- **Allow Place at Root** — Users can create or add an entity as a root or parent
- **Can create Server-based Maps** — Users can create import and export maps.
- **Can create Batches** — Users can create import and export batches.

4 Click **OK**.

Configuring Default Access to Databases, Entities, and Entity Groups

Subtopics

- [About Assigning Default Access](#)
- [Configuring Entities Access Options](#)
- [Configuring Accounts Access Options](#)
- [Adding Permissions Groups](#)
- [Configuring Time Access Options](#)
- [Configuring Reports Access Options](#)
- [Configuring Scenario Access Options](#)
- [Configuring Dimension Access Options](#)
- [Configuring Consolidation Access Options](#)
- [Configuring Reference Access Options](#)
- [Configuring Default Access for New Entities](#)

Assign access privileges to the Owner, Users, User Groups, and the Default User on the **Edit Default Access** dialog. You can also add users and groups on this box.

About Assigning Default Access

Use **Edit Default Access** to configure access for users or user groups to databases, entities, or entity groups. The context is determined by how you access the tab:

- For databases, on the **Databases** tab select the database, and select **Access** and then **Edit Default**
 - For entities, on the **Entities** tab select entities and select **Edit** and then **Access**.
 - For entity groups, on the **Entity Groups** tab select a group, and select **Group** and then **Access**.
- To configure access for users or user groups to databases, entities, or entity groups:
- 1 **Select Databases.**
 - 2 **Double-click a database.**
 - 3 **Optional: Perform an action:**
 - To configure access to an entity, select **Entities**, and then an entity.
 - To configure access to an entity group, select **Entity Group**, and then the entity group.
 - 4 **Perform an action:**
 - For a database, select **Access**, and then **Database Options** or **Edit Default**.
 - For an entity, select **Edit**, and then **Access**.
 - For an entity group, select **Group**, and then **Access**.
 - 5 **Optional: Add users or user groups to Edit Default Access:**
 - To add users, see [“Adding Users” on page 68](#) for instructions.
 - To add user groups, see [“Adding User Groups to Databases, Entities, or Entity Groups” on page 69](#) for instructions.
 - 6 **Optional: To delete users or groups, select them in Edit Database Options, and then click Delete.**
 - 7 **Optional: To edit default access options, click Edit and then select the options to configure:**
 - [“Configuring Entities Access Options” on page 64.](#)
 - [“Configuring Accounts Access Options” on page 64](#)
 - [“Configuring Time Access Options” on page 65](#)
 - [“Configuring Scenario Access Options” on page 66.](#)
 - [“Configuring Dimension Access Options” on page 66](#)
 - [“Configuring Consolidation Access Options” on page 67](#)
 - [“Configuring Reference Access Options” on page 67](#)
 - [“Configuring Reports Access Options” on page 65](#)

8 **Optional:** Select **New Entities** to define access options for new entities.

See [“Configuring Default Access for New Entities” on page 67.](#)

9 Click **OK**.

Configuring Entities Access Options

► To configure entity-level access:

1 Access **Edit Default Access for <databaseName/entityName/entityGroup>**.

See [“About Assigning Default Access” on page 62.](#)

2 Select **Entities**.

3 Select an **Access** option:

- **None**—Entities cannot be checked out
- **Open As Copy**—Entities can be checked out
- **Check out Entity**—Entities can be checked in and out

4 **Optional:** Select any additional options to enable users to perform entity-related tasks, such as:

- **Read Entity Comments**—Users can read entity check-in comments.
- **Allow Entity Change Management**—Activate Entity Change Management.
- **Allow Assumptions Change Management**—Activate Assumptions Change Management.
- **Delete Entity**—Users can delete entities.
- **Allow Batch Export to another Hyperion Application**—Enable batch exporting.
- **Allow Batch Import from another Hyperion Application**—Enable batch importing.
- **Change HSF Data Link**—Enable HSF links.
- **Change Required Elements**—Users can assign subaccounts as required elements.

5 Return to [“About Assigning Default Access” on page 62.](#)

Configuring Accounts Access Options

Use the **Edit Default Access—Accounts** tab to configure access to accounts.

► To configure account access:

1 Access **Edit Default Access for <databaseName/entityName/entityGroup>**.

See [“About Assigning Default Access” on page 62.](#)

2 Select **Accounts**.

3 Select the **Permission Groups**.

Permission Groups displays account groups classified as **Permission Groups** in the source entity.

Default contains accounts not belonging to account groups.

- Click **Add** to add new groups. See [“Adding Permissions Groups” on page 65](#).
- Select a group and click **Delete** to delete.

Note: You can add or delete account groups, but cannot delete the universal Default group.

4 Select Accounts options such as:

- **Add/Delete Subaccounts** — Users can change subaccount structures
- **Edit User-defined Accounts** — Users can modify memo, ratio, and covenant accounts
- **Allow Input in Actuals** — Users can modify data and time periods in the Actual scenario

Adding Permissions Groups

► To add permissions groups:

- 1 Select a permissions group.
- 2 Click **OK**.

Configuring Time Access Options

► To configure time period access:

- 1 Access **Edit Default Access for <databaseName/entityName/entityGroup>**.
See [“About Assigning Default Access” on page 62](#).
- 2 Select **Time**.
- 3 Select time access options. Select **Change Time Period Information** to enable general time period modifications not configured in [“Configuring Accounts Access Options” on page 64](#).

Configuring Reports Access Options

► To configure reports access:

- 1 Access **Edit Default Access for <databaseName/entityName/entityGroup>**.
See [“About Assigning Default Access” on page 62](#).
- 2 Select **Reports**.
- 3 Select **Global Permissions** options such as:
 - **Default Number Format**—Changes number formatting on reports.
 - **Load Default Reports**—Restores standard reports to their original layout.

- **Add Reports**—Users can add freestyle reports
- 4 Under **Reports** , specify report permissions, such as the ability to edit, hide, and protect (locks report cells).

Configuring Scenario Access Options

► To configure scenario access:

- 1 Access **Edit Default Access for <databaseName/entityName/entityGroup>**.

See “[About Assigning Default Access](#)” on page 62.

- 2 Select **Scenarios** .

- 3 Select **Global Permissions** to govern the tasks users to can perform:

- **Add Scenarios**—Create scenarios
- **Change output storage rules**—Modify output values
- **Allow input in scenario-specific accounts only**—Make changes only to specific accounts

- 4 Under **Access Control Items**, select a **Data and forecast methods** option to determine how data and forecast methods can be changed in scenarios:

- **Cannot change data or forecast methods**—No changes
- **Change data only**—Change only financial data
- **Change data and forecast methods**—Change financial data and forecast methods

- 5 Optional: Select tasks that users can perform, such as:

- **Add/Delete accounts**—Users can add or delete accounts within scenarios, except Base and Actual scenarios.
- **Select Delete**—Users can delete scenarios, except the Base and Actual scenarios.
- **Change Scenario Type**—Users can modify scenario types.

Configuring Dimension Access Options

► To configure dimension access:

- 1 Access **Edit Default Access for <database/entity/entitygroup>**.

See “[About Assigning Default Access](#)” on page 62.

- 2 Select **Dimensions**.

- 3 Select dimensions access options:

- **Can Maintain Dimensions**
Enables creating and deleting user-defined dimensions.
- **Can Assign Dimensions**

Enables assigning and removing the user-defined dimensions.

Configuring Consolidation Access Options

► To configure Consolidator access:

1 Access **Edit Default Access for <database/entity/entitygroup>**.

See [“About Assigning Default Access”](#) on page 62.

2 Select **Consolidation**.

3 Select **Consolidation Structure** access options, such as adding and removing entities from databases, deleting entities from consolidation structures, and changing entity characteristics in consolidation structures.

Configuring Reference Access Options

► To configure reference access:

1 Access **Edit Default Access for <database/entity/entitygroup>**.

See [“About Assigning Default Access”](#) on page 62.

2 Select **Reference**.

3 Select a **Get List of Permission Groups/Reports/Scenarios from** option to determine the source entity for reports, such as the current entity, or the first entity in an entity group.

Configuring Default Access for New Entities

Use the Edit Default Access—New Entities tab to define the default access permissions for new entities.

► To configure default access for new entities:

1 Access **Edit Default Access for <databaseName/entityName/entityGroup>**.

See [“About Assigning Default Access”](#) on page 62.

2 Select **New Entities**.

3 Select a **Newly-created child Entities get an access record by** option to define the access permissions source:

- Making a copy of the access record for this Entity—Use default access
- Copying a pre-defined access record—Click Edit Access to create access permissions.
See:
 - [“Configuring Entities Access Options”](#) on page 64
 - [“Configuring Accounts Access Options”](#) on page 64

- “Configuring Time Access Options” on page 65
- “Configuring Scenario Access Options” on page 66.
- “Configuring Dimension Access Options” on page 66
- “Configuring Consolidation Access Options” on page 67
- “Configuring Reports Access Options” on page 65
- “Configuring Reference Access Options” on page 67
- **Assigning the Entity to a Group**—Select a group
- **Letting the creator assign it to a Group**—Enable entity creators to assign entities to groups

Adding Users and Groups to Databases, Entities, or Entity Groups

Subtopics

- [Adding Users](#)
- [Adding User Groups to Databases, Entities, or Entity Groups](#)

After creating databases, add users. Users are authenticated internally with user IDs from external service providers.

Adding Users

- To add users or user groups to databases, entities, or entity groups:
 - 1 In the Administrator, select **Databases**.
 - 2 Double-click a database.
 - 3 To add users or user groups, perform an action:
 - To add users to entities—Select **Entities**, then select an entity.
 - To add users to entity groups—Select **Entity Group**, then select a group.
 - 4 Perform an action:
 - For databases, select **Access**, then **Database Options** or **Edit Default**.
 - For entities, select **Edit**, then **Access**
 - For entity groups, select **Group**, then **Access**.
 - 5 In **Edit Database Options** or **Edit Default Access**, click **Add User**.
 - 6 Select a user.
 - 7 In **Copy Access from**, select the source user to use to copying access privileges.
 - 8 Click **OK**.

Adding User Groups to Databases, Entities, or Entity Groups

- To add user groups to a databases, entity, or entity groups:
 - 1 **Select Databases.**
 - 2 Double-click a database.
 - 3 To add a user or user group to an entity or entity group, perform a task:
 - For an entity, select **Entities** , then select an entity.
 - For an entity group, select **Entity Group**, then select a group.
 - 4 **Perform an action:**
 - For databases, select **Access** , then **Database Options** or **Edit Default**.
 - For entities, select **Edit** , then **Access**.
 - For entity groups, select **Group** , then **Access**.
 - 5 In **Edit Database Options** or **Edit Default Access**, click **Add Group**.
 - 6 **By Name**, browse to the group.
 - 7 In **User Groups**, select a user group, then click **OK**.
 - 8 On **Add Group**, select a source user group, then click **Copy Access**.
 - 9 Click **OK**.

7

Activating and Managing Client-Side Functionality

In This Chapter

Activating and Managing Entity Change Management	71
Activating and Managing Assumptions Change Manager	74
Managing Import or Export Batches, Maps, and Servers	75

Manage these Strategic Finance client functions using the Administrator:

- Entity Change Management
- Assumptions Change Management
- Map and batch import and export

Activating and Managing Entity Change Management

Subtopics

- [Activating Entity Change Management](#)
- [Defining Access to ECM Documents](#)
- [Adding Users to ECM Documents](#)
- [Adding User Groups for ECM Documents](#)
- [Editing Access to ECM Documents](#)
- [Changing the Owner of ECM Documents](#)
- [Breaking Locks on ECM Documents](#)

Activating Entity Change Management

➤ To activate ECM:

- 1 On **Databases**, double-click a database.
- 2 Select **Access**, then **Database Options**.
- 3 In **Edit Database Options**, select **<Default>**, then click **Edit**.
- 4 On **Database General**, select **Allow Entity Change Management**, then click **OK**.
- 5 Click **OK**.

- 6 Select **Database**, then **Edit**.
- 7 From **Edit Default Access**, select **<Owner>** , then click **Edit**.
- 8 Click **Entities** , select **Allow Entity Change Management**, then click **OK**.
- 9 From **Edit Default Access**, select **<Default>** , then click **Edit**.
- 10 Click **Entities**, select **Allow Entity Change Management**, then click **OK**.
- 11 Click **OK**, then restart the server.

Defining Access to ECM Documents

► To manage access to ECM documents:

- 1 In **Administrator**, select **ECM**.
- 2 From **ECM Doc**, select a name.
- 3 Select **Edit**, then **Access**.
- 4 From **Edit Access**, perform a task:
 - [“Adding Users to ECM Documents” on page 72](#)
 - [“Adding User Groups for ECM Documents” on page 73](#)
 - To modify access for owners, default users, specific users, or groups, select a name in **Edit Access to <ECM Doc name>**, click **Edit**, then see [“Editing Access to ECM Documents” on page 73](#).
- 5 Click **OK**.

Adding Users to ECM Documents

► To add users:

- 1 Access **Edit Access**.
See [“Defining Access to ECM Documents” on page 72](#).
- 2 Click **Add User**.
- 3 Click **Browse**.
See [“Adding Users” on page 68](#).
- 4 In **Copy Access**, select a source user to copy access settings.
- 5 Click **OK**.

Adding User Groups for ECM Documents

➤ To add user groups:

1 Access Edit Access.

See [“Defining Access to ECM Documents”](#) on page 72.

2 Click Add Group.

3 Click Browse.

4 In User Groups, select a user group, and click OK.

5 On Add Group, in Copy Access , select a source group to copy access settings.

6 Click OK.

Editing Access to ECM Documents

➤ To edit ECM document access:

1 Access Edit Access.

See [“Defining Access to ECM Documents”](#) on page 72.

2 Select an Access option:

- **None**

No access.

- **Open As Copy**

Enables opening ECM documents as read-only copies.

- **Check Out**

Enables opening entities within ECM documents.

3 Optional: Select options to enable users to execute or remove ECM documents.

4 Click OK.

Changing the Owner of ECM Documents

➤ To change ECM document owners:

1 Click ECM.

2 From ECM Doc, select a name.

3 Select Edit and then Owner.

4 In Domain Name for New Owner, click Browse to select a user.

5 Click OK.

Breaking Locks on ECM Documents

► To break locks on ECM documents:

- 1 Click **ECM**.
- 2 On **ECM Doc**, select an ECM document.
- 3 Select **Edit** then **Break Lock**.

Activating and Managing Assumptions Change Manager

Subtopics

- [Activating Assumptions Change Manager](#)
- [Adding and Removing Users and Groups to ACM Documents](#)
- [Changing ACM Document Owners](#)
- [Breaking ACM Document Locks](#)

The ACM (Assumptions Change Manager) tab lists all ACM documents and their owners. ACM documents enable you to bulk manage multiple target entities in a base entity. Though ACM documents are create on the Strategic Finance Client, they are run on the server.

Activating Assumptions Change Manager

Activate the ACM by performing these tasks

- [“Assigning General Database Access” on page 61.](#)
- [“Configuring Default Access to Databases, Entities, and Entity Groups” on page 62.](#)

Adding and Removing Users and Groups to ACM Documents

► To define user or group access to ACM documents:

- 1 Select **ACM**.
- 2 Under **ACM Doc**, select a name.
- 3 Select **Edit** then **Access**.
- 4 On **Edit Access**, perform a task:
 - To add users, click **Add User**.
 - To add user groups, click **Add Group**.

- To edit access permissions for owners, default users, specific users, or user groups, in **Edit Access to <ACM Doc name>**, select one and click **Edit**.
- To delete user or user groups, in **Edit Access to <ACM Doc name>**, select one and click **Delete**.

5 Click **OK**.

Changing ACM Document Owners

► To change ACM document owners:

- 1 Select **ACM**.
- 2 Under **ACM Doc**, select a name.
- 3 Select **Edit** then **Owner**.
- 4 In **Domain Name for New Owner**, browse to select a user.
- 5 Click **OK**.

Breaking ACM Document Locks

► To break ACM document locks:

- 1 Select **ACM**.
- 2 Under **ACM Doc**, select a name.
- 3 Select **Edit Break Lock**.

Managing Import or Export Batches, Maps, and Servers

Subtopics

- [Managing Connections to EPM System Product Servers](#)
- [Managing Batches](#)
- [Managing Maps](#)

To import or export data between Strategic Finance and other EPM System applications, you grant end users access permission to maps and batch imports and exports.

Managing Connections to EPM System Product Servers

Before users can import or export between a Strategic Finance Server and another Oracle Enterprise Performance Management System server, you must create a connection.

- ▶ To create connections to other EPM System product server:
 - 1 **Access Oracle Hyperion Servers** and click **Add**.
 - 2 In **Administrator**, perform a task:
 - For Oracle Hyperion Planning servers, select **Server** then **Planning Servers**.
 - For Financial Management servers, select **Server** then **Financial Management Servers**.
 - 3 To delete a server, select it and click **Delete**.
 - 4 Click **OK**.
 - 5 In **New Server**, enter the server network name and click **OK**.

Managing Batches

Subtopics

- [Defining User and Group Access to Batches](#)
- [Overriding Default Access to Batches](#)
- [Changing Owners of Batches](#)

Defining User and Group Access to Batches

The default setting determines access if and how users and groups can access batches.

- ▶ To create default access control for batches:
 - 1 In **Administrator**, select **Batches**.
 - 2 Select a batch .
 - 3 Select **Edit** then **Access**.
 - 4 On **Edit Access**, perform a task:
 - Click **Add User** to add users.
See [“Adding Users to ECM Documents” on page 72](#).
 - Click **Add Group** to add groups.
See [“Adding User Groups for ECM Documents” on page 73](#).
 - To edit access for owners, default users, specific users, or user groups, in **Edit Access to <batchName>**, select one and click **Edit**.
See [“Overriding Default Access to Batches” on page 77](#).
 - To delete users or user groups, in **Edit Access to <batchName>**, select one and click **Delete**.
 - 5 Click **OK**.

Overriding Default Access to Batches

➤ To override default batch access:

- 1 In **Edit Access**, select a user or group and click **Edit**.
- 2 In **Edit Access for <userName/groupName>**, select **Access**:
 - **None**
No access.
 - **Check Out/Run Batch**
Enables users or user groups to check out and run batches.
- 3 **Optional:** Click **Delete Batch** to enable the user or group to delete the batch.
- 4 Click **OK**.

Changing Owners of Batches

➤ To change batch owners:

- 1 Select **Batches**.
- 2 From **Batch**, select a batch.
- 3 Select **Edit** then **Owner**.
- 4 In **Change Owner**, enter a user.
- 5 Click **OK**.

Managing Maps

Subtopics

- [Managing Access](#)
- [Overriding Default Map Access](#)
- [Changing Map Owners](#)

Managing Access

➤ To manage map access:

- 1 Select **Maps**.
- 2 Select a map.
- 3 Select **Edit** then **Access**.
- 4 On **Edit Access**, perform a task:
 - To add users, click **Add User**.

See [“Adding Users to ECM Documents”](#) on page 72.

- To add user groups, click **Add Group**.

See [“Adding User Groups for ECM Documents”](#) on page 73.

- To edit access for owners, default users, another user or a user groups, in **Edit Access** for <mapName>, select one and click **Edit**.

See [“Overriding Default Map Access”](#) on page 78.

- To delete users or user groups, select them in **Edit Access** to <mapName> and click **Delete**.

5 Click **OK**.

Overriding Default Map Access

► To override default map access:

1 On **Edit Access** , select a user or user group and click **Edit**.

See [“Managing Access”](#) on page 77.

2 On the **Edit Access** for <userName /groupName>, select access options:

- **None**

No access.

- **Check Out/Run Map**

Enables a user or user group to check out and use maps.

3 **Optional:** Click **Delete Map** to enable the user or group to delete the map.

4 Click **OK**.

Changing Map Owners

► To change map owners:

1 **Select Map**.

2 **From Maps**, select the map.

3 **Select Edit** then **Owner**.

4 **On Change Owner** , select a user.

5 Click **OK**.



Managing Locks, Logs, Transactions, and Sessions

In This Chapter

Managing Entity Locks	79
Managing Transactions	79
Managing Logs	80
Managing User Sessions	80
Managing Event Logs	80

Use the Administrator to perform daily maintenance and troubleshooting such as managing locks, logs, transactions, and user sessions.

Managing Entity Locks

When users check out entities, Strategic Finance locks the entity to protect the data. Use the **Locks** tab to monitor and break entity locks.

➤ To view and break entity locks:

1 From Administrator, select Locks.

The ID and domain of the user using the entity is displayed along with the name of the entity, the entity version number, and when it was checked out

2 To unlock an entity, select the lock, and then Lock and Break.

Managing Transactions

Use the **Transactions** tab to identify successful transactions and rerun failed transactions (re-run a failed ECM process)

➤ To manage transactions:

1 From Administrator, select Transactions.

The transaction types and states are displayed, such as (entity conversions performed after an upgrade.

2 Perform any action:

- To sort by type, in **Transaction Type**, select a type.
- To sort by state, in **Transaction State**, select a state.
- To view logs, select a transaction and click Show Log. See “Managing Logs” on page 80:
- To delete a log, select one and click **Delete**.
- To retry failed transactions, select the transaction and click **Rerun**.

Managing Logs

Use the **Logs** tab to view transaction details for troubleshooting purposes, about these transactions and tasks:

- Entity conversions
- Entity change management actions
- Database exports
- Batch import and exports
- Archive repairs and purges

► To use logs:

- 1 In the Administrator, select **Logs**.
- 2 Select a log and perform any action:
 - To retrieve—Select **Log**, then **Retrieve**.
 - To retrieve and delete—Select **Log**, then **Retrieve and Delete**.
 - To save logs as a .txt files—Click **Save As**

Managing User Sessions

Use the **Sessions** tab to identify how long a user has been using Strategic Finance. If a user does not exist Strategic Finance correctly, or the system freezes, destroy the session to free resources.

► To manage user sessions:

- 1 From the Administrator, select **Sessions**.
- 2 To delete sessions, select them, then **Session**, and then **Destroy**.

Managing Event Logs

Use the **Event Logs** tab to track daily use of Strategic Finance, analyze patterns, and troubleshoot.

- To manage event logs:
 - 1 From Administrator, select **Event Logs**.
 - 2 **Optional:** To retrieve a log, select it, click **Event Log** then **Retrieve**.



Server Registry and Database Directory Structure

In This Appendix

Server Registry	83
Directories and Files	85

Server Registry

Caution! Do not edit registers, unless specified in “[Defining Advanced Register Entry Settings](#)” on page 28.

EPM System Strategic Finance Service Registry Parameters

Strategic Finance service registers are located in:

HKKEY_LOCAL_MACHINE\SOFTWARE\Hyperion Solutions\HSFService

Table 28 Strategic Finance Service Registers

Parameter	Type	Data
(Default)	REG_SZ	(value not set)
ArchiveDirectory	REG_SZ	Archive
ArchiveWarningLevel	REG_SZ	Block
CSSConfigFile	REG_SZ	Absolute filepath to the External Authentication configuration file
DatabaseConnectionString	REG_SZ	Use to connect to the database
DatabaseConnectivityType	REG_SZ	ODBC or OLE DB DB Name
DataSourceConnectionString	REG_SZ	SQLOLEDB
DefaultLogFile	REG_SZ	C:\HSFData\Admin\Default.log
EntityDirectory	REG_SZ	ADB
EntityFileExtension	REG_SZ	ALS
HSFDataDir	REG_SZ	C:\HSFData

Parameter	Type	Data
LockFileExtension	REG_SZ	LCK
LogDirectory	REG_SZ	C:\HSFData
MaxBackgroundWorkers	REG_SZ	3
MaximumIntensiveRequests	REG_SZ	10
MaximumProcessSize	REG_SZ	2048000
MaximumFreeMemory	REG_SZ	51200
MinimumFreeDisk	REG_SIZ	100
MinumumFreeMemory	REG_SIZ	51200
MRUListSize	REG_SZ	5
RootDirectory	REG_SZ	C:\HSFData
RPCPort	REG_SZ	The port where the Strategic Finance server connects: 7750
SecurityRegime	REG_SZ	If disabled or showing no value, NTLM is the default. For External Authentication, set to: CSS
StructLockFileExtension	REG_SZ	LKS
StructureFileExtension	REG_SZ	CNS
TemplateExtension	REG_SZ	ALT
TraceLevel	REG_SZ	Standard

HSF Service Shared Services Registry Parameters

Strategic Finance registers for Shared Services are located in:

HKEY_LOCAL_MACHINE\Software\Hyperion Solutions\HSFService\Authentication

Table 29 Strategic Finance Registers for Shared Services

Name	Type	Data
(Default)	REG_SZ	(value not set)
ClassPath	REG_EXPAND_SZ	The classpath
ConnectionInfo	REG_SZ	String used to connect to Shared Services
HubInstanceID	REG_SZ	String storing the name of a Shared Services server

Name	Type	Data
HubURL	REG_SZ	URL connecting to Oracle Hyperion Shared Services
JamPath	REG_EXPAND_SZ	Locates the Java Virtual Machine
JVMPPath or JVMKey	REG_EXPAND_SZ	Locates required libraries

HSF Server Registry Parameters

Strategic Finance server registers are located in:

HKEY_CURRENT_USER\Software\Hyperion Solutions\Strategic Finance\HSFServer

Table 30 Strategic Finance Server Registers

Name	Type	Data
(Default)	REG_SZ	(value not set)
network address	REG_SZ	HSFserver
protocol	REG_SZ	ncacn_ip_tcp

Directories and Files

Subtopics

- [%EPM_ORACLE_HOME%\products\hsf\](#)
- [%EPM_ORACLE_HOME%\Diagnostics\Logs\hsf](#)

[%EPM_ORACLE_HOME%\products\hsf\](#)

Subtopics

- [Data](#)
- [ADB](#)
- [ADB\<Database>](#)
- [\ADB\<Database>\<Entity>](#)
- [Admin](#)
- [logs](#)
- [%EPM_ORACLE_HOME%\products\hsf\cfg\DB](#)

Data

This directory contains Strategic Finance databases, external databases, the AdminDoc (ADM) file, and transaction log files.

ADB

Table 31 ADB

Subdirectory	Contains
_delete	Deleted databases and their contents
<Database>	One individual, active database

ADB\<>Database>

Table 32 ..ABD\<>Database>

Subdirectory	Contains
delete	Deleted entities.
_ecm	Entity Change Management files
<Entity>	Corresponding entity

\ADB\<>Database>\<Entity>

Table 33 <Database>\<Entity >

Subdirectory or File	Contains
Archive	Archived versions of the entity
Drafts	Working drafts of the entity
<Entity>.ALS	Corresponding entity file
<Entity>.bld	Consolidation data for the entity after a consolidation structure was created
<Entity>.STR	Data about structural relationships between entities
<Entity>.LCK	Lock data

Admin

The AdminDoc file that contains this information:

- user authorization
- databases and database configurations
- export rule sets
- archive retention rules
- access records

- entity and user groups
- consolidation structure names and configurations
- server logging settings
- server E-mail controls
- backup and restore configuration

Table 34 Admin

File	Contains
Default.log	Logged errors on general server use.
ImportExportRestrictions.xml	Parameter settings that define export rules for RDBMS staging databases.
License.ini	License information.
User.adm	AdminDoc file.
User.tbk	AdminDoc file backup

logs

Table 35 Logs

Subdirectory or File	Contains
_finished	Completed transactions.
_processing	Transactions being processed.
Event<date>.log	Text file that logs transaction activity.
TRANS.TRN	Transaction file
TRANSLAK.TRN	Transaction file backup

%EPM_ORACLE_HOME%\products\hsf\cfg\DB

Subtopics

- [Oracle\New](#)
- [Oracle\Upgrade](#)
- [SQL Server\New](#)
- [SQL Server\Upgrade](#)

Table 36 ..\Hyperion\StrategicFinance\<release>\Server\DB

Subdirectories and Files	Contains
Oracle\New	Scripts for creating export databases in Oracle.

Subdirectories and Files	Contains
Oracle\Upgrade	Scripts for upgrading Alcar 6.x export databases in Oracle to Strategic Finance 3.x.
DB\SQL Server\New	Scripts for creating export databases in SQL Server.
DB\SQL Server\Upgrade	Scripts for upgrading Alcar 6.x export databases in SQL Server to Strategic Finance 3.x.

Oracle\New

Table 37 ..\DB\Oracle\New Scripts

File Name	Description
step1_tables_views.sql	Creates the base and ancillary Strategic Finance database schema, including: tables, sequences, indexes, and keys.
step2_defaultsproc.sql	Creates defaults and substitution procedures.
step3_pkgcreate.sql	Contains package definitions and bodies for the base Strategic Finance database export and the customer interface table.
step4a_optionalauditcreate.sql	Creates an optional audit table for defaults and substitutions.
step4b_optionalaudittrigger.sql	Creates an optional trigger for defaults and substitutions.

Oracle\Upgrade

This directory contains upgrade scripts.

SQL Server\New

Table 38 .SQL Server\New Scripts

File	Description
step1alt_remove_objects.sql	Alternative to step_1. Removes objects for reinstallation.
step1_create_alcar_database.sql	Creates the Strategic Finance SQL Server database as hsfsvr.
step2_security.sql	Sets up logins and permissions. The default are hsfsvr_user, password = null.
step3_tables_grants.sql	Contains the base Strategic Finance database schema, including: tables, indexes, and keys with default grants.
step4_procs_funcs.sql	Contains stored procedures and functions.

SQL Server\Upgrade

This directory contains upgrade30.sql to upgrade Oracle staging databases from 6.x to Strategic Finance 3.x.

%EPM_ORACLE_HOME%\Diagnostics\Logs\hsf

This directory contains event logs and end user actions.



Exporting Data

In This Appendix

About Exporting	91
Requirements.....	91
Setting Up a SQL Server Database.....	91
Setting up an Oracle Database.....	92
Using Oracle Application Clusters	93
Creating SQL Server Export Databases	94
Upgrading Export Databases.....	94
Configuring the Strategic Finance Server	95

About Exporting

Exporting data enables you to integrate Strategic Finance data with Relational Database Management (RDBMS) systems, creating transactions in a staging (export) database tables whenever Strategic Finance entities are created, updated, or deleted on the Strategic Finance server. Database tables link using `transaction_id`, `variable_id`, and `period ID`. This section describes how to configure Oracle and SQL Server export databases and upgrade export databases.

Requirements

Before exporting data, ensure that you:

- Are a database administrator with privileges to create schemas, tables, and packages
- Can access the Strategic Finance server
- Know the name, user name, and password for the target export database

Setting Up a SQL Server Database

To set up SQL Server:

1. Satisfy the requirements. See [“Requirements” on page 91](#).
2. In SQL Server, create an instance of the server in which to create the target database.

3. Access the SQL Server instance.
4. Navigate to %EPM_ORACLE_HOME%\products\hsf\cfg and run these scripts in order using Query Analyzer to create the export database:
 - Step1_create_HSF_database — Creates the Strategic Finance SQL Server database (hsfsvr)
 - Step1alt_remove_objects — Removes objects
 - Step2_security — Configures logins and permissions. By default, login = hsfdbuser and password = password
 - Step3_tables_grants — Contains the base Strategic Finance database schema including tables, and indexes
 - Step4_procs_funcs — Contains stored procedures and functions
5. See [“Creating SQL Server Export Databases” on page 94](#) and then [“Configuring the External Database Connection” on page 95](#).

Setting up an Oracle Database

If you are using an real application cluster (RAC), see [“Using Oracle Application Clusters” on page 93](#).

To setup up Oracle:

1. Install the Oracle client on the Strategic Finance server.
2. In the Oracle server, create the server name, database user name, and database password.
3. Using the user name and password, access the Oracle Service Name and create the schema. Specify a custom schema name or accept the default.
4. Run `Pre_installation.sql` to create the database and add the base HSFDBUser.
5. From %EPM_ORACLE_HOME%\products\hsf\cfg run these scripts:
 - `Step1_tables_views.sql` Contains the base and ancillary Strategic Finance database schema including tables, sequences, indexes, and keys
 - `Step2_defaultscreate.sql` Contains defaults and substitution procedures.
 - `Step3_pkgcreate.sql`
Contains package definitions and bodies for the base Strategic Finance database export and the customer interface table.
 - `Step4a_optionalauditcreate.sql`
Contains optional audit table for defaults and substitutions.
 - `Step4b_optionalaudittrigger`
Contains optional trigger for defaults and substitutions.

Note: The first two scripts assume a clean database schema. Use these scripts once per schema.

6. Log in to the schema using **HSFDBUser** and **password**.
7. Change the password for HSFDBUser.
8. In %EPM_ORACLE_HOME%\products\hsf\cfg run these scripts in this order:
 - Step1_tables_views.sql Contains the base and ancillary Strategic Finance database schema including tables, sequences, indexes, and keys
 - Step2_defaultscreate.sql Contains defaults and substitution procedures.
 - Step3_pkgcreate.sql
Contains package definitions and bodies for the base Strategic Finance database export and the customer interface table.
 - Step4_optionalauditcreate.sql
Contains optional audit table for defaults and substitutions.
 - Step4a_optionalaudittrigger
Contains optional trigger for defaults and substitutions.
9. See [“Creating SQL Server Export Databases” on page 94](#) and then [“Configuring the External Database Connection” on page 95](#)

Using Oracle Application Clusters

➤ To set up Oracle databases in RAC:

- 1 **Log into Oracle as the system database administrator.**
- 2 **Create a tablespace with these attributes:**
 - size 1024m
 - autoextend on
 - next 256m
 - maxsize 5128m
 - extent management local
- 3 **Create a user schema using the tablespace. The schema includes the user name and password Strategic Finance uses to access the export database.**
- 4 **Grant these privileges to the user schema:**
 - CREATE PROCEDURE
 - CREATE SESSION
 - CREATE TABLE
 - UNLIMITED TABLESPACE
 - CONNECT
 - RESOURCE

5 Log in to the user schema.

6 In order, run these scripts:

- `Step1_tables_views.sql` Contains the base and ancillary Strategic Finance database schema including tables, sequences, indexes, and keys
- `Step2_defaultsproccreate.sql` Contains defaults and substitution procedures.
- `Step3_pkgcreate.sql`
Contains package definitions and bodies for the base Strategic Finance database export and the customer interface table.
- `Step4a_optionalauditcreate.sql`
Contains optional audit table for defaults and substitutions.
- `Step4b_optionalaudittrigger`
Contains optional trigger for defaults and substitutions.

Creating SQL Server Export Databases

To create SQL Server export databases:

1. Run: `C:\sqlplus HSF/password@HSFOraDBSrvName.`
2. `RunSQL>scriptname.sql` where `scriptname` is the name of your script.
3. From `%EPM_ORACLE_HOME%\products\hsf\cfg`, install these scripts:
 - `Step1_create_HSF_database` — Creates the Strategic Finance SQL Server database (`hsfsvr`)
 - `Step1alt_remove_objects` — Removes objects
 - `Step2_security` — Configures log in information and permissions. By default, this is **hsfdbuser** and **password**.
 - `Step3_tables_grants` — Contains the base Strategic Finance database schema including tables, and indexes
 - `Step4_procs_funcs` — Contains stored procedures and functions

Upgrading Export Databases

To upgrade the export database from a previous release:

1. Navigate to `%EPM_ORACLE_HOME%\products\hsf\config\DB\Oracle\Upgrade`.
2. Run the SQL scripts for your release:

Table 39 Export Database Upgrade Scripts

Release	Script	To Update To
2.9	<code>upgrade30</code>	3.x or 4.0.x

Release	Script	To Update To
3.x 4.0	upgrade30 followed by upgrade41	<ul style="list-style-type: none"> ● 4.1 ● 9.2 ● 9.3
4.1 or higher	upgrade95	11.x

Configuring the Strategic Finance Server

Configuring the Strategic Finance server to connect to the export database involves these tasks:

- [“Creating Connections” on page 95](#)
- [“Configuring the External Database Connection” on page 95](#)

Creating Connections

➤ To set up the external connection:

- 1 **Launch the Administrator.**
- 2 **Select **Server** , then **Open** to select a server.**
- 3 **Select **Server**.**
- 4 **Select **Server** then **External Connection Settings**.**
- 5 **In **Choose Database Connectivity**, select the method corresponding to the database.**

Note: If you change the current setting, restart the Strategic Finance Service. If you are upgrading, change the settings to reference the new database connection.

- 6 **Close the Administrator.**
- 7 **From Control panel, select **Administrative Tools** then **Services**.**
- 8 **On the **Services** box, select the HSF service, right-click, and select **Restart**.**

Configuring the External Database Connection

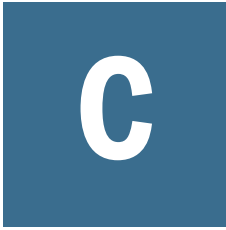
If you are using SQL Server connection, you must use the **With SQL Server authentication using a login ID and password entered by the user** option.

➤ To configure the Strategic Finance Server connection to the export database:

- 1 **Open the Administrator.**
- 2 **Select **Server** then **Open** to select the server.**
- 3 **Select **Databases or View** then **Databases**.**

- 4 Select **Database** then **External Database**.
- 5 From **HSF Database**, select the database to connect to the external database.
- 6 From **Connection Type**, select **Export**.
- 7 In **OLEDB Data source**, enter the Data Source Name.
- 8 In **User ID**, enter the user ID used to access the relational database.
- 9 In **Password**, enter the schema password.
- 10 In **Rule Set Name**, enter a rule set name.
- 11 **Optional:** In **E-mail Addresses**, enter comma-separated E-mail addresses of individuals to notify if exports fail.
- 12 To export entities, select **Database Connectivity Enabled** .
- 13 Click **OK**.

The connection is created and tested.



Migrating Data

In This Appendix

Requirements.....	97
Performing the Physical Migration.....	97
Entity Conversion.....	98

This section describes how to migrate Strategic Finance data from a test environment to the production environment.

Requirements

Before migrating Strategic Finance data between environments, perform these steps:

- Ensure that Strategic Finance users and groups were created and provisioned in Shared Services.
- Ensure that the person migrating data has the Admin, Provisioning Manager, and Power Manager security roles assigned to their account.
- Ensure that the test and production environments are maintained on separate computers.

Performing the Physical Migration

1. Install Strategic Finance but do **not** click **Configure** at the end of the installation.
2. Close all Strategic Finance client applications and stop the server service on the source host.
3. Perform a full backup of the product data directory (C:\HSFData).
4. Copy or move the Strategic Finance data directory from the source host to the destination host.
5. Return to the installation program, and click **Configure**. If you closed the installation program, select **Start**, then **Oracle EPM System**, then **Shared Services**, and then **EPM System Configurator**.
6. If necessary, specify another Strategic Finance data directory and complete the configuration.
7. Click **Validate** to verify that the Strategic Finance components are working as expected and ensure that the Strategic Finance server service has started.

Entity Conversion

From the Strategic Finance client perform these tasks to convert entities to the new format:

- Check them out
- Use ACM
- Use ECM



Troubleshooting

In This Appendix

Disabled Create Map Options for Financial Management	99
Oracle EPM Product Integrations	100
Backing up 11.1.x Applications	100
Moving Entities to Another Database on the Same Server.....	100
Client Connections to the Strategic Finance Server.....	101
Performing Strategic Finance Service Diagnostics	101

Disabled Create Map Options for Financial Management

Despite having the correct administrative access, and having correctly configured Strategic Finance for use with Financial Management, the Create Map button for Financial Management import and export maps is disabled because the required .dll file is incorrectly named.

➤ To resolve this issue:

- 1 Perform these steps on the computer hosting Strategic Finance Client:**
 - a. Close all Strategic Finance applications.
 - b. Navigate to %HYPERION_HOME%\products\hsf\client.
 - c. Rename HSFHFMLink.dll as HSFHFMLink.dll.org.
 - d. Rename HSFHFMLink_A.dll as HSFHFMLink.dll.
 - e. Start the applications.
- 2 Perform these steps on the computer hosting the Strategic Finance Server:**
 - a. Stop the Strategic Finance server service.
 - b. Navigate to %HYPERION_HOME%\products\hsf\server.
 - c. Rename HSFHFMLink.dll as HSFHFMLink.dll.org.
 - d. Rename HSFHFMLink_A.dll as HSFHFMLink.dll.
 - e. Start the Strategic Finance server service.
- 3 Connect to the Strategic Finance Server on the computer hosting the Strategic Finance Client.**
- 4 Create the Hyperion Financial Management map.**

Oracle EPM Product Integrations

If you upgraded to or installed release 11.1.2.1 of Hyperion Enterprise or Financial Management, confirm that they successfully integrate with Strategic Finance. If integration fails, perform these tasks:

- Navigate to %EPM_ORACLE_INSTANCE%\bin directory (e.g. C:\Oracle\Middleware\user_projects\epmsystem1\bin).
- Run one or both of the following:
 - Oracle Hyperion Enterprise®—epmsys_registry.bat updateproperty STRATEGIC_FINANCE_SERVICE/@integrationActiveHE true
 - Oracle Hyperion Financial Management—epmsys_registry.bat updateproperty STRATEGIC_FINANCE_SERVICE/@integrationActiveH true

Backing up 11.1.x Applications

In previous releases you could backup using PKZip. Because this tools is no longer provided, perform these tasks to backup your applications:

1. Ensure that all users have logged out.
2. Stop the HSF Service.
3. Copy theHSFData directory.
4. Restart the HSF Service.

For more backup and restore procedures, see the *EPM System Backup and Recovery Guide*

Moving Entities to Another Database on the Same Server

To transfer entities to another database on the same physical server, perform these steps: move all of the entities to root (if they are not in a structure), shut down the service, copy/move the directories to the new database, and then restart the server. You will then have to

1. If they are not in a hierarchy, move all entities to root.
2. Stop the HSF Service.
3. Copy the directories to the other database.
4. Restart the Oracle Hyperion Strategic Finance Server.
5. Re-establish all required access rules.

Client Connections to the Strategic Finance Server

Failures associated with the server are usually revealed by a client that fails to connect to the server, or that locks up when it does connect. The server runs as a service under Windows 2000, making it simple to monitor and control. When troubleshooting the server, confirm connectivity between the client and server. If problems persist, use one of these procedures.

➤ Follow these steps:

- 1 On the server where Strategic Finance is running, select **Start**, then **Programs**, then **Administrative Tools**, and then **Services**.
- 2 Check whether the Strategic Finance service is running and if it is set to start automatically on reboot. If not, start the service.
- 3 If you cannot connect and the service is running, stop and start the service.

Performing Strategic Finance Service Diagnostics

Subtopics

- [Starting and Restarting the Service](#)
- [Verifying the Service in Windows Task Manager](#)
- [Viewing Messages in the Event Viewer](#)
- [Server Memory Errors and Error Logs](#)

To collect diagnostic information and troubleshoot problems, log on to the system with full administrator privileges. Diagnostics can be performed directly on the server or using a remote access program. Use event logs and other logs to debug the system.

Note: Before troubleshooting, ensure that the service is running. If it is running, stop, and restart it.

Starting and Restarting the Service

➤ To restart the service:

- 1 From the Windows Server desktop, access the Control Panel and select **Administrative Tools**, and then **Services**.
- 2 Right-click the Strategic Finance and select **Restart** or **Start**.

Verifying the Service in Windows Task Manager

➤ To verify the service in Windows Task Manager:

- 1 From the keyboard, press **Ctrl-Alt-Delete**.
- 2 In the **Windows Security** window, click **Task Manager**.
- 3 On the **Windows Task Manager** box, select **Processes**.
- 4 Locate **HSFServer.exe**.

Some issues to look for:

- If **HSFServer.exe** is not in the list of active processes, start it.
- When you find **HSFServer.exe** in the list, check **Mem Usage**. If the use exceeds 500 MB, there could have been a memory error. Restart the service.

Viewing Messages in the Event Viewer

➤ To find service event messages using Event Viewer:

- 1 In the **Control Panel** and select **Administrative Tools** and then **Event Viewer**.
- 2 In **Tree** , select **Application Log**.
- 3 In the **Application Log** list box, scroll through the messages searching for any errors labeled **Oracle Hyperion Strategic FinanceService**.
- 4 Examine any error messages to determine the problem.

Out of memory, breakpoint c0000005, and cannot open errors indicate memory corruption. Restart the service.

Server Memory Errors and Error Logs

You can log these errors:

- “Access violation at breakpoint c0000005”
- “Not enough storage space available to process this command”

These indicate that the server has not recovered from the error. Consequently, error messages logged after these messages are suspect. Resolve some memory errors by restarting the service.

Glossary

account blocking The process by which accounts accept input data in the consolidated file. Blocked accounts do not receive their value through the additive consolidation process.

account eliminations Accounts which have their values set to zero in the consolidated file during consolidation.

alias table A table that contains alternate names for members.

application 1) A software program designed to run a specific task or group of tasks such as a spreadsheet program or database management system. 2) A related set of dimensions and dimension members that are used to meet a specific set of analytical requirements, reporting requirements, or both.

Blocked Account An account that you do not want calculated in the consolidated file because you want to enter it manually.

calc script A set of commands that define how a database is consolidated or aggregated. A calculation script may also contain commands that specify allocation and other calculation rules separate from the consolidation process.

Calculated Accounts Accounts with formulas that you cannot alter. These formulas are fixed to maintain the accounting integrity of the model that you are building. For example, the formula for Net Income, a Calculated Account, is modeled into Strategic Finance and cannot be changed in historical or forecast periods.

calculation status A consolidation status that indicates that some values or formula calculations have changed. You must reconsolidate to get the correct values for the affected entity.

consolidated file (Parent) A file into which all of the business unit files are consolidated; contains the definition of the consolidation.

consolidation file (*.cns) A graphical interface that enables you to add, delete, or move Strategic Finance files in the consolidation process using either a Chart or Tree view. It also enables you to define and modify the consolidation.

Currency Overrides A feature allowing the selected input method for any input period to be overridden to enable input of that period's value as Default Currency/Items. To override the input method, enter a pound sign (#) before or after the number.

Default Currency Units The unit scale of data. For example, If you select to define your analysis in thousands and enter 10, this unit is interpreted as 10,000.

dimension A data category used to organize business data for the retrieval and preservation of values. Dimensions usually contain hierarchies of related members grouped within them. For example, a Year dimension often includes members for each time period, such as quarters and months.

Eliminated Account An account that does not appear in the consolidated file.

Equity Beta The riskiness of a stock, measured by the variance between its return and the market return, indicated by an index called "beta." For example, if a stock's return normally moves up or down 1.2% when the market moves up or down 1%, the stock has a beta of 1.2.

Historical Average An average for an account over a number of historical periods.

Map File A file that stores the definition for sending data to or retrieving data from an external database. Map files have different extensions (.mps to send data; .mpr to retrieve data).

Marginal Tax Rate The rate used to calculate the after-tax cost of debt; represents the tax rate applied to the last earned income dollar (the rate from the highest tax bracket into which income falls) and includes federal, state, and local taxes. Based on current level of taxable income and tax bracket, you can predict marginal tax rate.

Market Risk Premium The additional rate of return paid over the risk-free rate to persuade investors to hold "riskier" investments than government securities. Calculated by subtracting the risk-free rate from the expected market return. These figures should closely model future market conditions.

Related Accounts Accounts related to the main account and grouped under the same main account number. The account structure groups all main and related accounts under the same main account number. The main account is distinguished from related accounts by the first suffix of the account number.

Risk Free Rate The rate of return expected from "safer" investments such as long-term U.S. government securities.

Shared Services Registry The part of the Shared Services repository that manages EPM System deployment information for most EPM System products, including installation directories, database settings, computer names, ports, servers, URLs, and dependent service data.

Status bar The bar at the bottom of the screen that displays helpful information about commands, accounts, and the current status of your data file.

Subaccount Numbering A system for numbering subaccounts using nonsequential whole numbers.

tabs Navigable views of accounts and reports in Strategic Finance.

Taxes - Initial Balances Strategic Finance assumes that the Initial Loss Balance, Initial Gain Balance, and Initial Balance of Taxes Paid entries have taken place in the period before the first Strategic Finance time period.

Title bar A bar that displays the Strategic Finance name, the file name, and the scenario name Version box.

Index

Essbase

- creating rule set, [39](#)
- rule set
 - account options, [39](#)
 - general options, [39](#)
 - scenario options, [41](#)
 - time options, [40](#)
- rule sets
 - custom dimensions, [41](#)

A

Access Options

- Accounts, [64](#)
 - Adding Permissions Groups, [65](#)
- Consolidation, [67](#)
- Dimension, [66](#)
- Entities, [64](#)
- Reference, [67](#)
- Reports, [65](#)
- Scenarios, [66](#)
- Time, [65](#)
- account table, [45](#)
- analysis table, [44](#), [47](#)
- Architecture, [11](#)
- Assumptions change manager
 - activating, [74](#)
 - adding and removing users and groups, [74](#)
 - breaking locks, [75](#)
 - changing ownership, [75](#)

B

Batches

- changing owners, [77](#)
- overriding access defaults, [77](#)
- batches
 - automatic export , [52](#)
 - defining user access to imported and exported

defining access, [76](#)

C

- CN_ATTR_Parent, [49](#)
- CN_Entity, [50](#)
- CN_Group_Equity, [47](#)
- CN_GRP_Bloacked, [48](#)
- CN_GRP_Elim, [48](#)
- CN_Scenario, [50](#)
- CN_Structurey, [51](#)
- CNS_ATTR_Child, [49](#)
- consolidation labels
 - creating, [32](#)

D

- database
 - adding users, [68](#)
 - changing, [32](#)
 - connecting to external, [33](#)
 - creating, [31](#)
 - creating reference to isolate production data, [42](#)
 - deleting, [33](#)
 - export
 - tables, [34](#)
 - exporting entities to external, [33](#)
 - extended analytics database tables, [38](#)
- Database Connectivity, [34](#)
- database permissions
 - general, [62](#)

E

- ECM documents
 - changing ownership, [73](#)
- email settings, [28](#)
- Entities
 - accessing, [55](#)

- Archives, [59](#), [60](#)
- archives, [58](#)
- changing owners, [56](#)
- Check-In Rules, [58](#)
 - Setting, [58](#)
- converting, [57](#)
 - in bulk, [57](#)
 - Selected, [57](#)
- definition, [55](#)
- locks, [56](#)
- specifying default access, [67](#)
- entity
 - adding users, [68](#)
 - exporting to external database, [33](#)
 - table, [44](#)
- Entity Change Management
 - activating, [71](#)
 - adding user groups, [73](#)
 - adding users to documents, [72](#)
 - breaking locks, [74](#)
 - changing ownership, [73](#)
 - Editing Access to, [73](#)
 - specifying access to documents, [72](#)
- Entity Groups
 - adding, [57](#)
 - definition, [55](#)
 - deleting, [58](#)
 - editing, [58](#)
- Entity locks
 - breaking, [79](#)
 - viewing, [79](#)
- Event logs: viewing and retrieving, [80](#)
- Exported
 - batches
 - defining user access, [76](#)
- Exported maps
 - defining user access, [77](#)
 - overriding default access, [78](#)
- Exporting data
 - requirements, [75](#)
- Extended Analytics, [33](#)
- extended analytics
 - creating database tables, [38](#)
- External Analytics, [36](#)

F

- fact table, [43](#)

- formulas
 - creating time, [21](#)
- functions
 - time, [22](#)

G

- Groups
 - database access and permissions, [62](#)

H

- header table, [44](#)

I

- Imported
 - batches
 - defining access, [76](#)
- Imported maps
 - defining user access
 - Managing Access to, [77](#)
 - overriding default access, [78](#)
- Importing data
 - requirements, [75](#)
- Integration
 - requirements, [51](#)
 - Financial Data Management, [51](#)

L

- language settings, changing, [27](#)
- locks
 - breaking for ACM documents, [75](#)
 - breaking for ECM documents, [74](#)
- Logs
 - using, [80](#)
- logs
 - defining entity event settings, [28](#)
 - defining system event settings, [27](#)

M

- Maps
 - changing owner, [78](#)
 - defining user access, [77](#)
 - overriding default access, [78](#)

O

ODBC Data source, [33](#)
 Ownership
 changing for batches, [77](#)
 ownership
 assumptions change manager, [75](#)
 changing for maps, [78](#)

R

registry settings, [28](#)
 Relational Database
 Exporting, [56](#)
 Rule sets
 account options, [20](#)
 creating, [19](#)
 general options, [19](#)
 scenario options, [21](#)
 scenario types, [22](#)
 time options, [20](#)
 rule sets
 Essbase, [39](#)

S

scenario
 table, [45](#)
 scenario options for rule sets, [21](#)
 Scenario types, [26](#)
 creating and editing, [26](#)
 deleting, [26](#)
 Strategic Finance Server, [11](#)
 defining access , [30](#)
 Strategic Finance server
 Connections, [18](#)
 defining and transferring settings, [26](#)
 general settings, [27](#)
 star schema tables, [43](#)
 account, [45](#)
 analysis, [44](#), [47](#)
 CN_ATTR_Parent, [49](#)
 CN_Entity, [50](#)
 CN_Group_Equity, [47](#)
 CN_GRP_Blocked, [48](#)
 CN_GRP_Elim, [48](#)
 CN_Scenario, [50](#)
 CN_Structure, [51](#)
 CNS_ATTR_Child, [49](#)

entity, [44](#)
 fact, [43](#)
 header, [44](#)
 scenario, [45](#)
 time, [46](#)
 transaction, [47](#)
 Uddim, [46](#)

T

time formulas, creating, [21](#)
 time functions, [22](#)
 time table, [46](#)
 transaction table, [47](#)
 Transactions
 viewing and-running, [79](#)

U

Uddim table, [46](#)
 User Groups
 database access, [61](#)
 User groups
 adding or removing from ACM documents, [74](#)
 adding to database, entity, and entity group, [69](#)
 adding to ECM documents, [73](#)
 defining access to batches, [76](#)
 User I.D., [34](#)
 User sessions
 viewing and deleting, [80](#)
 Users
 adding or removing from ACM documents, [74](#)
 adding to database, entity, and entity group, [68](#)
 adding to ECM documents, [72](#)
 database access, [61](#), [62](#)
 database access and permissions, [62](#)
 defining access to batches, [76](#)
 defining access to ECM documents, [72](#)
 defining access to maps, [77](#)
 users
 granting access to server, [30](#)

A B C D E F G H I L M O R S T U