

Automating Oracle HFM Tasks

Setting up Oracle HFM Tasks with Star Finance Command Center

1) Setup the HFM "Computing Resource"

Use the connection parameters to natively connect to Oracle Hyperion Financial Management (HFM).

Computing resource

Name:

Description:

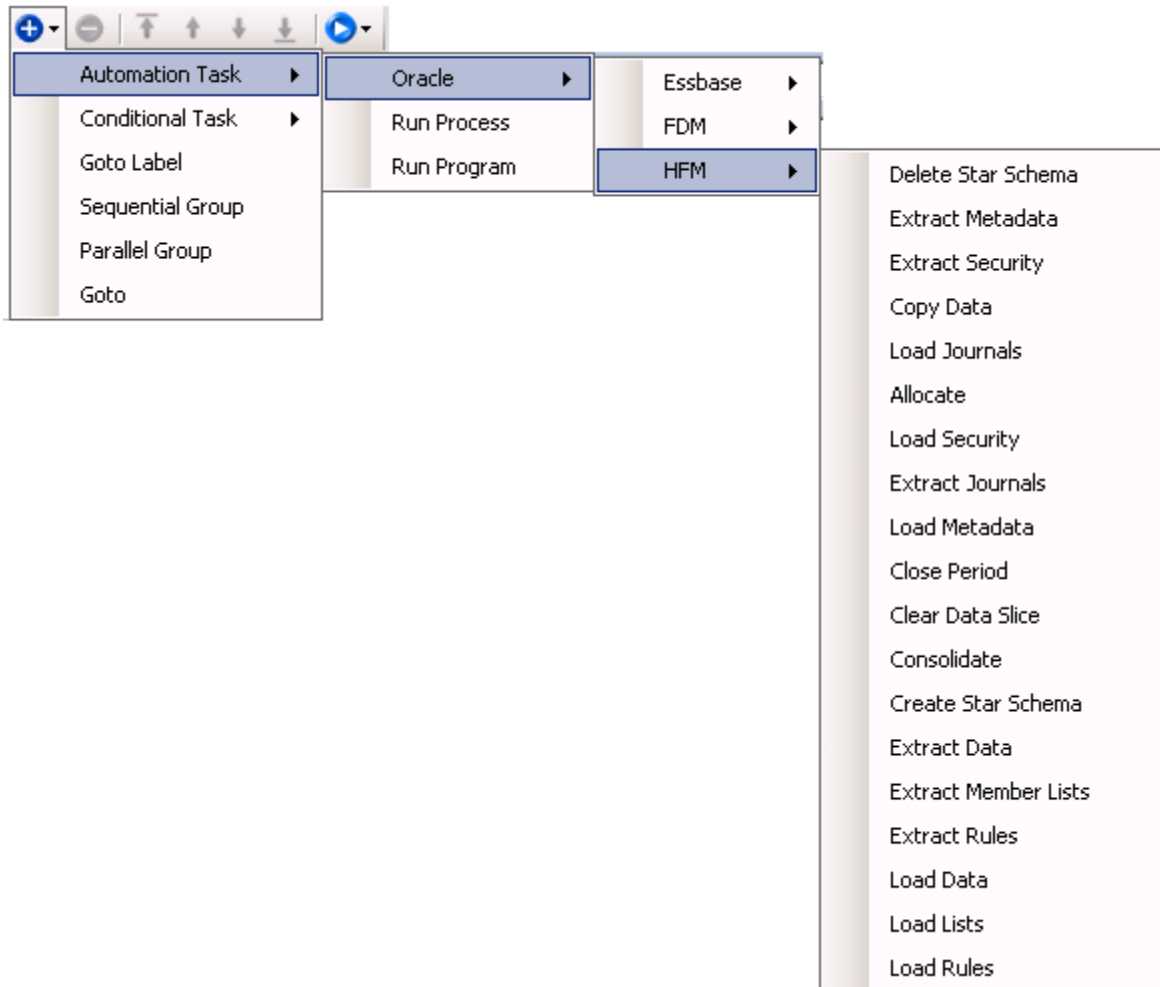
Type:

Resource attributes

Environment	DEV	PROD
Agent:	<input type="text" value="EPM_HostOps"/>	<input type="text" value="EPM_HostOps"/>
Server Domain:	<input type="text" value="Optional"/>	<input type="text" value="Optional"/>
Server Name:	<input type="text" value="HFM1112"/>	<input type="text" value="HFM1112"/>
User ID:	<input type="text" value="admin"/>	<input type="text" value="administrator"/>
Password:	<input type="text" value="....."/>	<input type="text" value="....."/>
Home Directory	<input type="text" value="c:\sfcc"/>	<input type="text" value="c:\sfcc"/>

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2) Select an HFM Task from the SFCC Menu



At the time of this document, the available tasks are as follows:

- **Allocate** – Allocates an entity's data across a range of periods.
- **Clear Data Slice** – Clears a HFM data slice based upon the configuration file.
- **Close Period** – Closes a HFM Period.
- **Consolidate** – Consolidates an entity across a range of periods.
- **Copy Data** – Copies data for one or more entities from one set of cells to another set of cells based upon a configuration file.

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- **Create Star Schema** – Creates or updates a relational star schema or flat file by extracting data from a HFM application.
- **Delete Star Schema** – Deletes a HFM EA generated star schema.
- **Extract Data** – Extracts a HFM data slice based upon the configuration file.
- **Extract Journals** – Extracts HFM Journals based upon a combination of Scenario, Year and Period.
- **Extract Member Lists** – Extracts HFM Member Lists.
- **Extract Metadata** – Extracts HFM metadata.
- **Extract Rules** – Extracts HFM Rules.
- **Extract Security** – Extracts HFM security.
- **Load Data** – Loads HFM Data.
- **Load Journals** – Loads HFM Journals.
- **Load Lists** – Loads HFM Member Lists.
- **Load Metadata** – Loads HFM Metadata.
- **Load Rules** – Loads HFM Rules.
- **Load Security** – Loads HFM Security

3) Optionally setup Environment or Process Variables

The use of variables allow tasks to be dynamic especially when prompted at runtime.

Process

Name: Version 14

Description:

Ecosystem: Corporate Planning

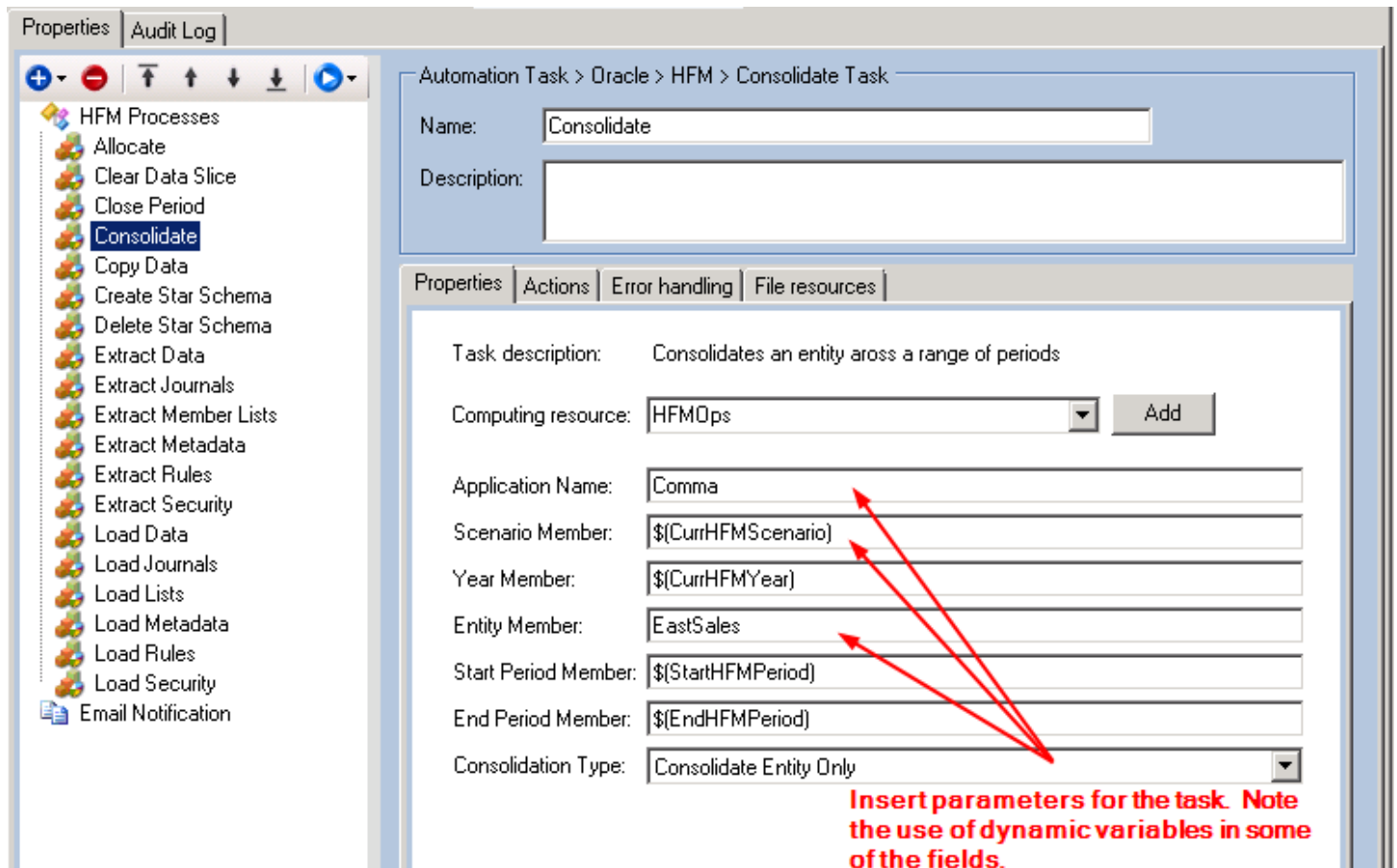
Process variables

	Variable	Encrypt	Prompt	Value
<input checked="" type="checkbox"/>	CurrHFMSscenario	<input type="checkbox"/>	<input type="checkbox"/>	Actual
<input checked="" type="checkbox"/>	CurrHFMYear	<input type="checkbox"/>	<input type="checkbox"/>	2008
<input checked="" type="checkbox"/>	StartHFMPeriod	<input type="checkbox"/>	<input type="checkbox"/>	January
<input checked="" type="checkbox"/>	EndHFMPeriod	<input type="checkbox"/>	<input type="checkbox"/>	March
*		<input type="checkbox"/>	<input type="checkbox"/>	

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4) Sample Task #1: Consolidate

Insert parameters needed to perform the operation. In this example, the necessary parameters including the HFM application name, variables and fixed HFM members are entered to run an HFM Consolidation:



Automation Task > Oracle > HFM > Consolidate Task

Name: Consolidate

Description:

Properties | Actions | Error handling | File resources

Task description: Consolidates an entity across a range of periods

Computing resource: HFMDps Add

Application Name: Comma

Scenario Member: \$(CurrHFMScenario)

Year Member: \$(CurrHFMYear)

Entity Member: EastSales

Start Period Member: \$(StarHFMPeriod)

End Period Member: \$(EndHFMPeriod)

Consolidation Type: Consolidate Entity Only

Insert parameters for the task. Note the use of dynamic variables in some of the fields.

Each task will have different parameters depending upon the operation

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5) Run or Schedule the process (via Windows Client)

Also, note that Star Finance Command Center provides full error handling and email alerting in conjunction with running the process.

The screenshot shows the Star Finance Command Center interface. At the top, there are tabs for 'DEV' and 'PROD'. Below this, a summary box for 'HFM Processes' shows the following details:

- Process name: HFM Processes
- Status: ✔ Completed
- Result: Completed successfully.
- Started: 1/29/2011 1:15:29 AM
- Completed: 1/29/2011 1:15:41 AM
- Last successful run: 1/29/2011 1:15:29 AM
- Next scheduled run: Not scheduled

On the right side of this summary box, there are control buttons: a play button (indicated by a red arrow), a pause button, a stop button, an 'Edit' button, and a 'Schedule...' button (indicated by another red arrow).

Below the summary box is a 'Run details' section with a 'Run history' tab. It contains a table with the following columns: Status, Result, Exit code, Started, and Completed. The table lists various HFM tasks and their execution status.

Status	Result	Exit code	Started	Completed
✔	Completed	Exit with code 0	1/29/2011 1:15:29 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:29 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:32 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:32 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:33 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:34 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:36 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:36 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:37 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:37 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:37 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:38 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:38 AM	1/29/2011 1:15:41 AM
⏸	Skipped	Skipped by action.	1/29/2011 1:15:39 AM	1/29/2011 1:15:41 AM
⏸	Skipped	Skipped by action.	1/29/2011 1:15:39 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:39 AM	1/29/2011 1:15:41 AM
✔	Completed	Exit with code 0	1/29/2011 1:15:40 AM	1/29/2011 1:15:41 AM
⏸	Skipped	Skipped by action.	1/29/2011 1:15:41 AM	1/29/2011 1:15:41 AM
⏸	Skipped	Skipped by action.	1/29/2011 1:15:41 AM	1/29/2011 1:15:41 AM

Overlaid on the table is a 'Star Finance Command Center' dialog box with the text 'Start process: HFM Processes' and a gear icon. It has 'Start' and 'Cancel' buttons.

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6) Run and Monitor the process (via Web Client)

Allows end-users and information workers to log in based upon their security credentials to run and monitor HFM tasks based upon their security setup.

The screenshot displays the Star Finance Command Center web interface in Internet Explorer. The browser address bar shows the URL: `http://sa-w08s-epm11-12-64x:8180/Process/Details/17/5`. The page title is "Process Detail - HFM Processes" and it indicates the ecosystem is "Corporate Planning" and the environment is "DEV". The user is logged in as "default".

The main content area shows a "Process Overview" section with a green checkmark and the text "Succeeded". Below this, a "Result" box displays "Completed successfully." with a scrollable area. A "View Run History" link is visible below the result.

A modal dialog box titled "Start Process: HFM Processes" is overlaid on the screen, containing "Start" and "Cancel" buttons. In the background, a "Task Run Details" table is partially visible, listing tasks and their statuses.

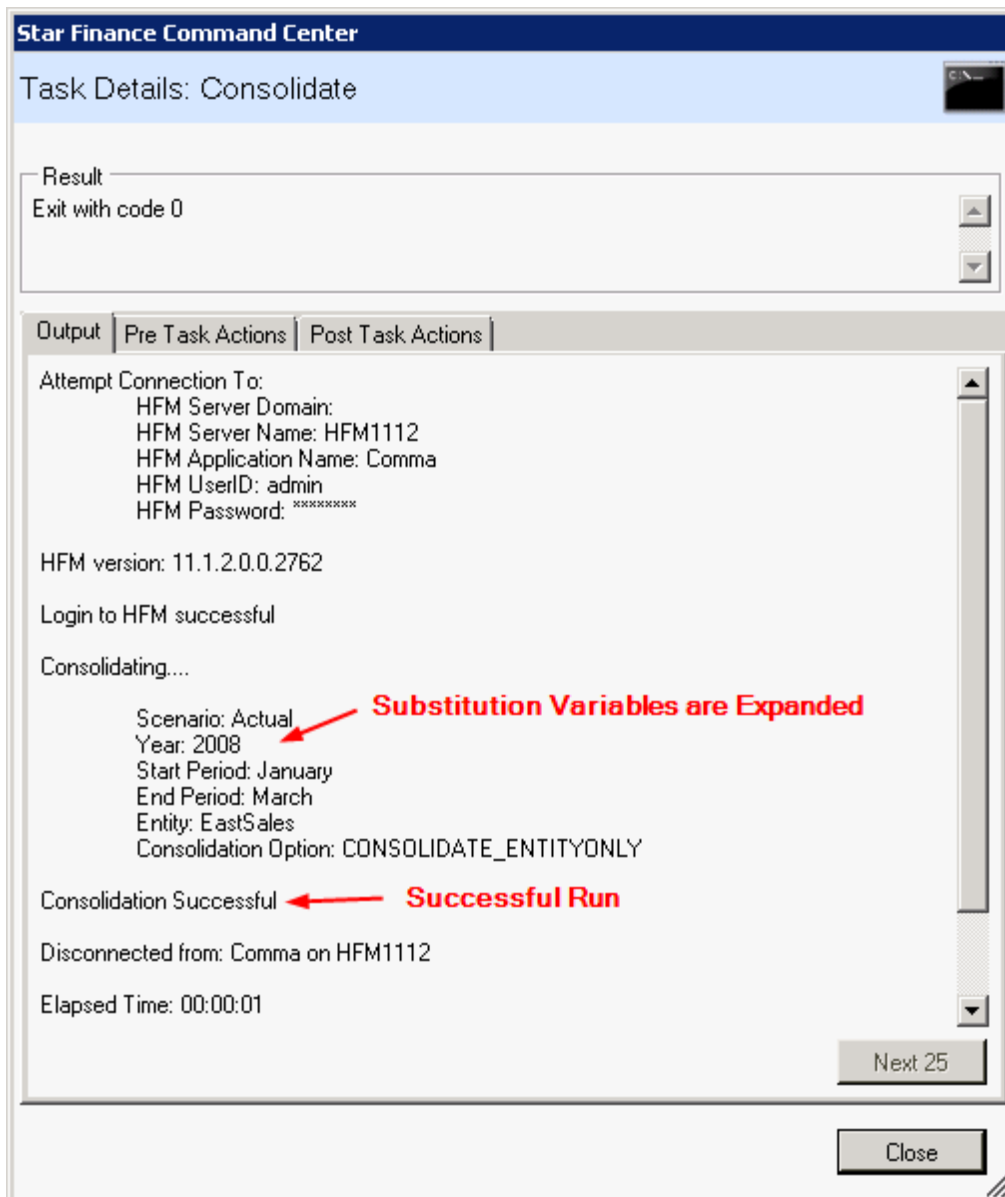
Task	Status	Completed
Allocate	✓ Succeeded	01/29/11 01:15:29 AM
Clear Data Slice	✓ Succeeded	01/29/11 01:15:32 AM
Close Period	✓ Succeeded	01/29/11 01:15:32 AM
Consolidate	✓ Succeeded	01/29/11 01:15:33 AM

It should be noted that Star Finance Command Center can automate other applications in orchestration with HFM. For example tasks associated with Essbase, FDM, EPMA, batch files and non Oracle products like SQL Server or QlikView can all be chained together.

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7) See a real time event log of any running Task

In the example below, the output of the HFM Consolidation task is displayed allowing an administrator or end-user to see the results of a task without digging through log files on remote servers.



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8) Sample Task #2: HFM Extended Analytics (EA) Extraction

Insert parameters needed to set up the EA Extraction. Note the last parameter is a configuration which sets additional parameters used for the task. Configuration files are used for the following tasks: **Extended Analytics**, **Data Export (Native)**, **Data Copy** and **Clear Data**.

Automation Task > Oracle > HFM > Create Star Schema Task

Name:

Description:

Properties | Actions | Error handling | File resources

Task description: Creates or updates a relational star schema or flat file by extracting data from a HFM application

Computing resource:

Application Name:

Display Members:

Member Expansion Only:

Show Detail Process Log:

Destination DSN:

Table Prefix:

Extract Type:

Push Type:

Exclude Dynamic Accounts:

Exclude Calculated Accounts:

Exclude ICP Accounts:

Exclude ICP Entity:

Use Default Parent:

Configuration File:

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9) Setup up a Configuration File

The sample file below sets the scope of the extraction to certain combinations of HFM members. Similar files are used for HFM **Data Export (Native), Copy Data** and **Clear Data**.

```

7  ! 1. The three dimensions ACCOUNT, ENTITY and PERIOD can be defined with multiple members in a single row.
8  ! member function that is the last element of each data subset row.
9  ! a. Available member functions include [MEMBER], [IDESCENDANTS], [DESCENDANTS], [ICILDREN], [CHILDREN], [I
10 ! [IPARENTS], [PARENTS], [BASE] and [MEMBERLIST]. The functions [IDESCENDANTS], [ICILDREN], [IANCE
11 ! the data subset includes the member itself. [BASE] function indicates all the base-level members i
12 ! top member (not a base-level member).
13 ! b. There is one special function [ALLMEMBERS]. The function [ALLMEMBERS] indicates the data subset :
14 ! of the dimension, for example:
15 ! [DATA_SUBSET], ACCOUNT, "<<ANY VALID MEMBER>>", [ALLMEMBERS]
16 ! [DATA_SUBSET], ENTITY, "Geographical", [ALLMEMBERS]
17 ! c. Overlapping areas resulting in duplicate members will be automatically removed
18 ! d. There is no requirement to place members in quotes and case does not matter
19 ! e. Any invalid members will be flagged
20
21 [DATA_SUBSET], SCENARIO, "Actual", "Budget", "BudV1", "BudV2", "Legal", "PlanV2x", [MEMBER]
22 [DATA_SUBSET], YEAR, $(CurrHFMYear), [MEMBER]
23 [DATA_SUBSET], PERIOD, $(StartHFMPeriod), [ALLMEMBERS]
24 [DATA_SUBSET], VIEW, "Periodic", [MEMBER]
25 [DATA_SUBSET], VALUE, "USD", [MEMBER]
26 [DATA_SUBSET], ICP, [ICP NONE], [MEMBER]
27 [DATA_SUBSET], ENTITY, "EastRegion", [DESCENDANTS]
28 [DATA_SUBSET], ACCOUNT, "BalSht", [MEMBERLIST]
29 [DATA_SUBSET], ACCOUNT, "IncomeBeforeTaxes", "NetProfit", "OperatingIncome", "Sales", "taxes", "cogsa", [MEMBER]
30 [DATA_SUBSET], CUSTOM1, "TotalProducts", [MEMBER]
31 [DATA_SUBSET], CUSTOM2, "TotalCustomers", [MEMBER]
32 [DATA_SUBSET], CUSTOM3, "TotalC3", [DESCENDANTS]
33 [DATA_SUBSET], CUSTOM4, "ClosingBalance", [MEMBER]
34 |
  
```

Note the use of variables

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10) Run the Process, and see output results from the HFM Task

The example below illustrates the output from the Extended Analytics Task.

