



# Big Fish eCommerce

BF Admin Module Scheduled Jobs.doc

Last Updated: 1-Aug-2012

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## 1 Modification History

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<b>Date</b>	<b>Who</b>	<b>Comments</b>
18-Jun-12	Salmon	Initial
28-Jun-12	Salmon	Changes based on DEV review
17-Jul-12	Salmon	Clarified various date usages based on OFBiz implementation
1-Aug-12	Salmon	Changed to use Helper and Warning tooltip
15-Aug-12	Salmon	Added "delete" capability on List and Detail screens

## 2 Overview

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### 2.1 OFBiz Scheduled Jobs

- To access via OFBiz:
  - Webtools
  - See job functions under the "Service Engine" heading
- "Job List"
  - List of jobs by Name, ID, Service and Status
- Schedule a Job:
  - entry screen to create a new scheduled job
  - Options to repeat on a set frequency
- Schedule Job Detail:
  - Defines run time data that the service needs in order to execute
- Example:
  - If scheduling our BF service "genProductsIndex" which re-indexes SOLR, the detail screen prompts for the Product Store and Root Category
  - The runtime data is pre-defined by the service definition in the code base
- Note:
  - OFBiz OOTB does not provide an interface to update the schedule job info (start time for example).
  - Once the job has been created, the job must be cancelled and re-created
  - Our interface, defined in this document, will allow for user-friendly ways to perform updates to scheduled jobs
- Technical Note: OFBiz Services:
  - `scheduleService`:
    - Prepares the input service parameters for saving a scheduled job
  - `setServiceParameters`:
    - Gets the list of input parameters for a given service name

### 2.2 OFBiz Entities

- `JOB_SANDBOX`
  - This is the primary reference for the Job (`JOB_ID`) and the Service (`SERVICE_NAME`)
- `RUNTIME_DATA`
  - Referenced from the `JOB_SANDBOX.RUNTIMEDATA_ID` attribute
  - It contains the runtime data for the job
- `RECURRENCE_INFO`
  - Referenced from the `JOB_SANDBOX.RECURRENCE_INFO_ID` attribute
  - The `RECURRENCE_INFO.RECURRENCE_RULE_ID` references to the actual frequency rules that are in place
- `RECURRENCE_RULE`

- Defines the frequency details if appropriate

### 2.3 **BigFish Scheduled Jobs**

- This is controlled by a system parameter ADM\_BF\_SERVICES\_AVAIL\_FOR\_SCHED which contains a comma delimited list of available services

### 2.4 **Services Available**

- Services available should be:

<b>Service</b>	<b>Description</b>	<b>Parameters</b>
genProductsIndex	A service to re-index SOLR so that any newly edited Products or Categories are correctly reflected in the eCommerce site. Typically run daily during low traffic hours.	browseRootProductCategoryId productStoreId
shipReviewEmail	A service that will look for completed Orders and send an email to the customer and prompt them to return to the site and post a product review. Typically run daily during low traffic hours.	productStoreId
abandonCartEmail	A service that will look for customers that have placed products in their cart without completing an order. This service emails the customer as a reminder, normally with a promo-code for added incentives. Typically run daily during low traffic hours.	emailCount intervalHours productStoreId
clientProductUpdates *	A service that will look for a file created by the client that contains all Product changes. This may include new products, removed products or changes to existing products. Typically run daily during low traffic hours, however some clients may have a more regular update in order to maintain accurate inventory levels.	NOT_DEFINED
clientOrderStatusUpdates *	A service that will look for a file created by the client that contains all Order Status changes. Typically run daily during low traffic hours, however some clients may require an hourly execution in order to keep customers informed on a more timely basis.	NOT_DEFINED
bigFishCustomerFeed *	A service that extracts all new Registered Customers and creates a	NOT_DEFINED

	file for the client. The client would typically load this information into their back-end ERP solution and eMail Campaign management systems. Typically run daily during low traffic hours.	
bigFishOrderFeed *	A service that extracts all new eCommerce Orders and creates a file for the client. The client would typically load this into their back-end fulfillment solution. Typically run several times per day.	NOT_DEFINED
bigFishContactUsFeed *	A service that extracts all new Contact Us Events and creates a file for the client. The client may load this into their CRM solution. Typically run daily during low traffic hours, however some clients may want more regular updates in order to perform exceptional customer service.	NOT_DEFINED
bigFishRequestCatalogFeed *	A service that extracts all new Request Catalog Events and creates a file for the client. Typically run during low traffic hours.	NOT_DEFINED

\* New Services

■ Technical Notes:

- Services parameters for all service should be put into the context as hidden fields on the form.
- Ofbiz service 'scheduleService' will determine what is needed based on the service name definition.
  - productStoreId = GlobalContext.productStoreId (auto populated on all detail forms)
  - browseRootProductCategoryId = GlobalContext.browseRootProductCategoryId (auto populated on all detail forms)
  - emailCount = GlobalContext.EMAIL\_ABANDON\_NUM
  - intervalHours = GlobalContext.EMAIL\_ABANDON\_HRS

**2.5 Multi-Store Consideration:**

- The OFBiz configurations do not allow for separation by Product Store
- Therefore, any such separation needs to be part of the actual Service being executed

- In other words, for Services that require Product Store separation the Product Store should be passed as a parameter

### 3 View Scheduled Jobs

#### 3.1 Accessed From

- Admin navigation bar

#### 3.2 Processing

Criteria	Description
Job Name	will execute a "contains" matching algorithm
Service Name	will execute a "contains" matching algorithm
Job ID	is an exact match
Job Status	will have the following Status Codes checked by default: Pending, Queued, Running
Scope	BigFish: Jobs should have a SERVICE_NAME limited to the services maintained in the system parameter ADM_BF_SERVICES_AVAIL_FOR_SCHED All: do not limit by SERVICE_NAME

#### 3.3 Visual Guideline

## view scheduled jobs

Enter Search Criteria:			
Job Name:	<input type="text"/>	Run Date From:	<input type="text" value="6/15/2012"/>  To: <input type="text"/>
Service Name:	<input type="text"/>	Start Date From:	<input type="text"/>  To: <input type="text"/>
Job ID:	<input type="text"/>	Finish Date From:	<input type="text"/>  To: <input type="text"/>
Job Status:	<input checked="" type="checkbox"/> All <input checked="" type="checkbox"/> Cancelled <input checked="" type="checkbox"/> Crashed <input checked="" type="checkbox"/> Failed <input checked="" type="checkbox"/> Finished <input checked="" type="checkbox"/> Pending <input checked="" type="checkbox"/> Queued <input checked="" type="checkbox"/> Running		
Scope:	<input checked="" type="checkbox"/> BigFish Only <input checked="" type="checkbox"/> All		
<b>Search</b>			

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### Matching Scheduled Jobs

Job ID	Job Name	Service Name	Status	Run Date	Start Date	Finish Date	Cancel Date
<a href="#">14897</a>	shipReviewEmail	shipReviewEmail	Pending	06/16/2012 2:00am			
<a href="#">14898</a>	SOLRIndex	genProductsIndex	Finished	06/15/2012 4:00am	06/15/2012 4:00am	6/15/2012 4:30am	

<a href="#">14899</a>	AbandonEmail	abandonCartEmail	Finished	06/15/2012 5:00am	06/15/2012 5:00am	6/15/2012 5:30am
<a href="#">14898</a>	SOLRIndex	genProductsIndex	Pending	06/16/2012 4:00am		
<a href="#">14899</a>	AbandonEmail	abandonCartEmail	Finished	06/16/2012 5:00am		

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[New Job](#)

### 3.4 OFBiz Mapping

- OFBiz Entity: JOB\_SANDBOX

Caption	DB	Comment
Job ID	JOB_ID	Centered
Job Name	JOB_NAME	Left-aligned
Service Name	SERVICE_NAME	Left-aligned
Status	STATUS_ID	Centered
Run Date	RUN_TIME	Centered
Start Date	START_DATE_TIME	Centered
Finish Date	FINISHED_DATE_TIME	Centered
Cancel Date	CANCEL_DATE_TIME	Centered

### 3.5 Processing

- Delete Job:
  - Confirm "Are you sure you want to delete Job ID [ID]?"
  - Physically delete from JOB\_SANDBOX

## 4 Scheduled Jobs Detail

### 4.1 Pre-Processing

Attribute	Description / Validation
Job Name	Editable in either "Edit" or "New" mode
Service Name	Editable in either "Edit" or "New" mode
Job ID	Display only, generated for a "New" entry
Job Status	Display Only, set to "Pending" for a "New" entry
Run Date:	Editable for any "Pending" jobs, including a "New" entry. Otherwise display-only.
Start Date:	Display Only, set to blank for a "New" entry
Finish Date:	Display, "Edit" mode only
Cancel Date:	Display, "Edit" mode only
Repeat:	Editable for "Pending" job ( <b>DEV to confirm</b> ). Valid values are None, Daily, Weekly, Monthly, Yearly, Hourly, Minutely. Note: "Secondly" is a valid OFBiz option but is not offered in the BF implementation.

#### ■ Run and Start Date:

- In Detail mode the Run Date should be disabled and Start date should be entered.
- The Ofbiz services will derive the Run Date.
- For Example:
  - Service: genProductsIndex
  - Start Date: 07/01/2012
  - Frequency: Daily
  - In this example genProductsIndex will run each day for a month

### 4.2 Visual Guideline

## scheduled job detail

#### Scheduled Job Detail: shipReviewEmail

Job ID: 14584

Job Name:

Service Name:

Job Status: Pending

Run Date:   Time:

Start Date:  Time:

Finish Date: Time:

Cancel Date: Time:

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**Recurrence Rules**

Repeat:

Run Every:  Day

Freq Count:

### 4.3 Notes

- If Repeat is set to "None" then "Run Every" and "Freq Count" are set to blank and view only
- Set defaults as follows:
  - Max Retry: -1 (service default)
- Helper text
  - Day:
    - The text "Day" needs to change whenever the "Repeat" option is modified
    - It also needs to also respect singular and multiple entry in the "Run Every" field
    - For example:

Repeat	Run Every	Helper Text
Daily	1	Day
Daily	2	Days
Weekly	3	Weeks
Month	1	Month
None		Blank

- Freq Count: "Use -1 to indicate forever"

### 4.4 Validation

- Job Name:
  - "Job Name is a required field"
- Service Name:
  - "Service Name" is a required field and must exist"
- Run Date:

- "Run Date must be entered and for a Pending job it must be in the future"
- If Repeat is not None, then Run Every must be a number between 1 and 999
  - "When repeating the Run-Every attribute must be between 1 and 999"
- If Repeat is not None, then Freq Count must be either -1 or a number between 1 and 999
  - "When repeating the Freq Count must be either -1 or a number between 1 and 999"

#### **4.5 Actions**

- Cancel:
  - Run OFBiz service cancelScheduledJob
- Delete Job:
  - See List Screen