



BF Admin Module

Services & Scheduled Jobs.doc

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1 Modification History

Date	Who	Comments
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
28-Aug-12	Salmon	Combined information from "Services" doc into new doc "Services and Scheduled Jobs".
27-Sep-12	Salmon	Added new services/jobs
07-May-14	Solveda	Removed Run Time entry from scheduled jobs. No longer needed since Run Date is now entered as Run Date/Time.

2 Overview

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 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

2.4 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 Bigfish Services

3.1 clientProductUpdate

- Description:
 - 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.
- System Parameters
 - See "*BF Admin Module Feeds.doc*" for more information
- Parameters (runtime data):
 - productStoreId
 - feedsInProductDir
 - feedsInSuccessSubDir
 - feedsInErrorSubDir

3.2 genProductIndex

- Description:
 - 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.
 - Function can be run as part of the Admin / Tools functions.
 - See "*BF Admin Module Tools.doc*" for more information
 - As noted in this spec, OFBiz cache should be cleared
- Parameters (runtime data):
 - productStoreId
 - browseRootProductCategoryId

3.3 genSeoFriendlyUrl

- Description:
 - A service that generates SEO Friendly URL based on the current product catalog.
 - genSeoUrlMap
- Parameters (runtime data):
 - productStoreId
 - browseRootProductCategoryId

3.4 clientProductUpdateIndexSeoFriendlyUrl

- Description:
 - A Consolidated service that will execute the following services:
 - clientProductUpdate
 - genProductIndex
 - genSeoFriendlyUrl
- Parameters (runtime data):
 - productStoreId
 - feedsInProductDir
 - feedsInSuccessSubDir
 - feedsInErrorSubDir
 - browseRootProductCategoryId

3.5 clientOrderStatusUpdate

- Description:
 - 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.
- System Parameters
 - See "*BF Admin Module Feeds.doc*" for more information
- Parameters (runtime data):
 - productStoreId
 - feedsInOrderStatusDir
 - feedsInSuccessSubDir
 - feedsInErrorSubDir

3.6 clientProductRatingUpdate

- Description:
 - A service that will look for a file that contains the latest Product Rating Scores.
- System Parameters
 - See "*BF Admin Module Feeds.doc*" for more information
- Parameters (runtime data):
 - productStoreId
 - feedsInRatingsDir
 - feedsInSuccessSubDir
 - feedsInErrorSubDir

3.7 **clientStoreUpdate**

- Description:
 - A service that will look for a file that contains the latest Stores
- System Parameters
 - See "*BF Admin Module Feeds.doc*" for more information
- Parameters (runtime data):
 - productStoreId
 - feedsInStoresDir
 - feedsInSuccessSubDir
 - feedsInErrorSubDir

3.8 **bigFishCustomerFeed**

- Description:
 - A service that extracts all new Registered Customers and creates a file for the client.
 - See spec "*BF Admin Module Customers.doc*" for more information about the usage of the IS_DOWNLOADED attribute
 - 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.
- System parameters:
 - See spec "*BF Admin Module Feeds.doc*" for more information
- Parameters (runtime data):
 - productStoreId
 - feedsOutCustomerDir
 - feedsOutCustomerPrefix

3.9 **bigFishOrderFeed**

- Description:
 - A service that extracts all new eCommerce Orders and creates a file for the client.
 - See spec "*BF Admin Module Orders.doc*" for more information about the usage of the IS_DOWNLOADED attribute
 - The client would typically load this into their back-end fulfillment solution.
 - Typically run several times per day.
- System parameters:
 - See spec "*BF Admin Module Feeds.doc*" for more information

- Parameters (runtime data):
 - productStoreId
 - feedsOutOrderDir
 - feedsOutOrderPrefix

3.10 bigFishContactUsFeed

- Description:
 - A service that extracts all new Contact Us Events and creates a file for the client.
 - See spec "*BF Admin Module Customers.doc*" for more information about the usage of the IS_DOWNLOADED attribute
 - 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.
- System parameters:
 - See spec "*BF Admin Module Feeds.doc*" for more information
- Parameters (runtime data):
 - productStoreId
 - feedsOutContactUsDir
 - feedsOutContactUsPrefix

3.11 bigFishRequestCatalogFeed

- Description:
 - A service that extracts all new Request Catalog Events and creates a file for the client.
 - See spec "*BF Admin Module Customers.doc*" for more information about the usage of the IS_DOWNLOADED attribute
 - Typically run during low traffic hours.
- System parameters:
 - See spec "*BF Admin Module Feeds.doc*" for more information
- Parameters (runtime data):
 - productStoreId
 - feedsOutRequestCatalogUsDir
 - feedsOutRequestCatalogPrefix

3.12 abandonCartEmail

- Description:

- 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.
- System parameters:
 - EMAIL_ABANDON_HRS
 - EMAIL_ABANDON_NUM
- Parameters (runtime data):
 - productStoreId
 - emailCount
 - intervalHours

3.13 shipReviewEmail

- Description:
 - 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.
 - See spec "*BF Admin Module Feeds.doc*" and "*BF Ratings and Reviews.doc*" for more information
- System parameters:
 - REVIEW_SEND_EMAIL: the service should verify this parameter and if set to FALSE then no processing is required. It is assumed that the job would simply NOT be scheduled, but this check will provide an additional assurance.
 - EMAIL_REVIEW_SHP_DYS
- Parameters (runtime data):
 - productStoreId
 - shipReviewDays

3.14 reevooGetProductRatingScore

- Description:
 - A service that pulls all Product rating Scores from Reevo.

- File is then converted from CSV to XML format
- File ultimately available for processing via service clientProductRatingUpdates
- See spec "*BF Admin Module Feeds.doc*" for more information
- System parameters:
 - See spec "*BF Revoo Implementation.doc*" for additional details, specifically how the CSV file is pulled from Reevo
- Parameters (runtime data):
 - productStoreId
 - apiAccessUrl
 - apiCsvUrl
 - apiUserName
 - apiPassword
 - feedsInRatingsDir

3.15 reevooProductRatingUpdate

- Description:
 - Consolidated service that will execute the following services:
 - reevooGetProductRatingScore
 - clientProductRatingUpdate
- Parameters (runtime data):
 - productStoreId
 - apiAccessUrl
 - apiCsvUrl
 - apiUserName
 - apiPassword
 - feedsInRatingsDir
 - feedsInSuccessSubDir
 - feedsInErrorSubDir

4 View Scheduled Jobs

4.1 Accessed From




- Admin navigation bar






4.2 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


4.3 Visual Guideline


view scheduled jobs

Enter Search Criteria:			
Job ID:	<input type="text"/>	Run Date From:	<input type="text" value="6/15/2012"/>  To: <input type="text"/>
Job Name:	<input type="text"/>	Start Date From:	<input type="text"/>  To: <input type="text"/>
Service Name:	<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		
<input type="button" value="Search"/>			

<< Previous Page			Showing Rows 1-3 of 14							Next >>
Matching Scheduled Jobs										
Job ID	Parent Job ID	Prev Job Id	Job Name	Status		Run Date	Start Date	Finish Date	Comments	
14897			shipReview	Pending		06/16/2012 2 2:00am				
14898			SOLRIndex	Failed		06/15/2012 2 4:00am	06/15/2012 4:00am	6/15/2012 4:30am		
14899			AbandonEmail	Finished		06/15/2012 2 5:00am	06/15/2012 5:00am	6/15/2012 5:30am		
14898	14898	14898	SOLRIndex	Pending		06/16/2012 2 4:00am				
14899			AbandonEmail	Finished		06/16/2012 2 5:00am				

4.4 Processing

- Sort Sequence:
 - Run-Date/Time descending (most recent first)
- Helper Text 
 - Text built from the Service Name and Recurrence Rules

Service: [service name]
 Job Repeats every [n] [days(s) / hours(s) / etc]
 The Job will run [n time(s) / forever]
- Delete Job :
 - On hover display tooltip "Click here to delete the job"
 - Confirm "Are you sure you want to delete Job ID [ID]?"
 - Physically delete from JOB_SANDBOX

4.5 OFBiz Mapping

- OFBiz Entity: JOB_SANDBOX

Caption	DB	Comment
Job ID	JOB_ID	Left-aligned
Job Name	JOB_NAME	Left-aligned
Service Name	SERVICE_NAME	
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

5 Scheduled Jobs Detail

5.1 Pre-Processing

Attribute	Description / Validation
Job Name	Editable in either "Edit" or "New" mode
Service Name	Editable in "New" mode only
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 (DEV to confirm). Valid values are 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

5.2 Visual Guideline

scheduled job detail


Scheduled Job Detail: shipReviewEmail

Job ID: 14584 	
Parent Job ID: <u>14581</u>	Max Retry: 3
Previous Job ID: <u>14581</u>	Loader Name: JobDispatcher

Job Name:	<input type="text" value="shipEmailJob"/>	Run By Instance:	Ofbiz1
Service Name:	<input type="text" value="shipEmail [drop-down]"/>	Auth User:	admin
Job Status:	Pending		
Run Date:	<input type="text" value="06/16/2012 2:59:00"/>		
Start Date:			
Finish Date:			
Cancel Date:			

Recurrence Rules	
Repeat:	<input type="text" value="Daily [drop-down]"/>
Run Every:	<input type="text" value="1"/> Day
Freq Count:	<input type="text" value="-1"/>
<input type="button" value="Back"/>	<input type="button" value="Save"/> <input type="button" value="Cancel Job"/> <input type="button" value="Delete Job"/>

5.3 Processing

- Service Name is a drop down that contains all available BigFish services
- Parent-Job-ID and Previous-Job-Id will redirect to this same page for the Job ID clicked
- Runtime Data Viewer 
 - On hover displays "View Runtime Data Parameters" as a tooltip
 - On click, redirect to the Runtime Data Parameters page
- "Cancel Job" should only be displayed if the Job Status is "Pending", "Queued" or "Running"

5.4 Notes

- 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

- Freq Count: "Use -1 to indicate forever. Use 1 to indicate a one time execution. Or use a positive number for n number of executions."

5.5 Validation

- Job Name:
 - "Job Name is a required field"
- Service Name:
 - "Service Name" is a required field and must exist"
- Run Date / Time:
 - The Time must be specified within the date/time picker
 - "Run Date / Time must be entered and for a Pending job it must be in the future"
- Run Every must be a number between 1 and 999
 - "When repeating the Run-Every attribute must be between 1 and 999"
- 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"

5.6 Actions

- Cancel:
 - Run OFBiz service cancelScheduledJob
- Delete Job:
 - Processing should be the same as "View Scheduled Jobs" page

6 Runtime Data Parameters

6.1 UI Guideline

runtime data parameters

Job ID: [job-id] Job Name: [job-name] Service: [service-name]

XML snippet is displayed here

Back

6.2 Technical Note

- Data is displayed from `RUNTIME_DATA.RUNTIME_INFO`
- Read only
- Scroll bar so that contents can be viewed
- Content should be wrapped

6.3 Technical Note

- The display above is very similar to the System Configuration File viewer (see spec "BF Admin Module Tools.doc")
- There should be a good opportunity for re-use

7 Scheduled Jobs: Email Alerts

- After execution, all scheduled jobs should trigger an email to indicate the service being executed and whether it was successful or not
- An Email Template file of E_SCHED_JOB_ALERT should be created
- An Email Configuration of PRDS_SCHED_JOB_ALERT should be created
- The following dynamic parameters will be made available:
 - scheduleJobName: the name of the scheduled job
 - scheduleJobStatus: a value indicating success or failure of the scheduled job execution. Valid values are:
 - Processed Successfully
 - *** FAILED ***
 - scheduleJobInfo: any additional technical information, specifically when the job fails, that will provide useful context in the email
- See spec "*BF Email.doc*" for more information