



BF Admin Module Feeds.doc

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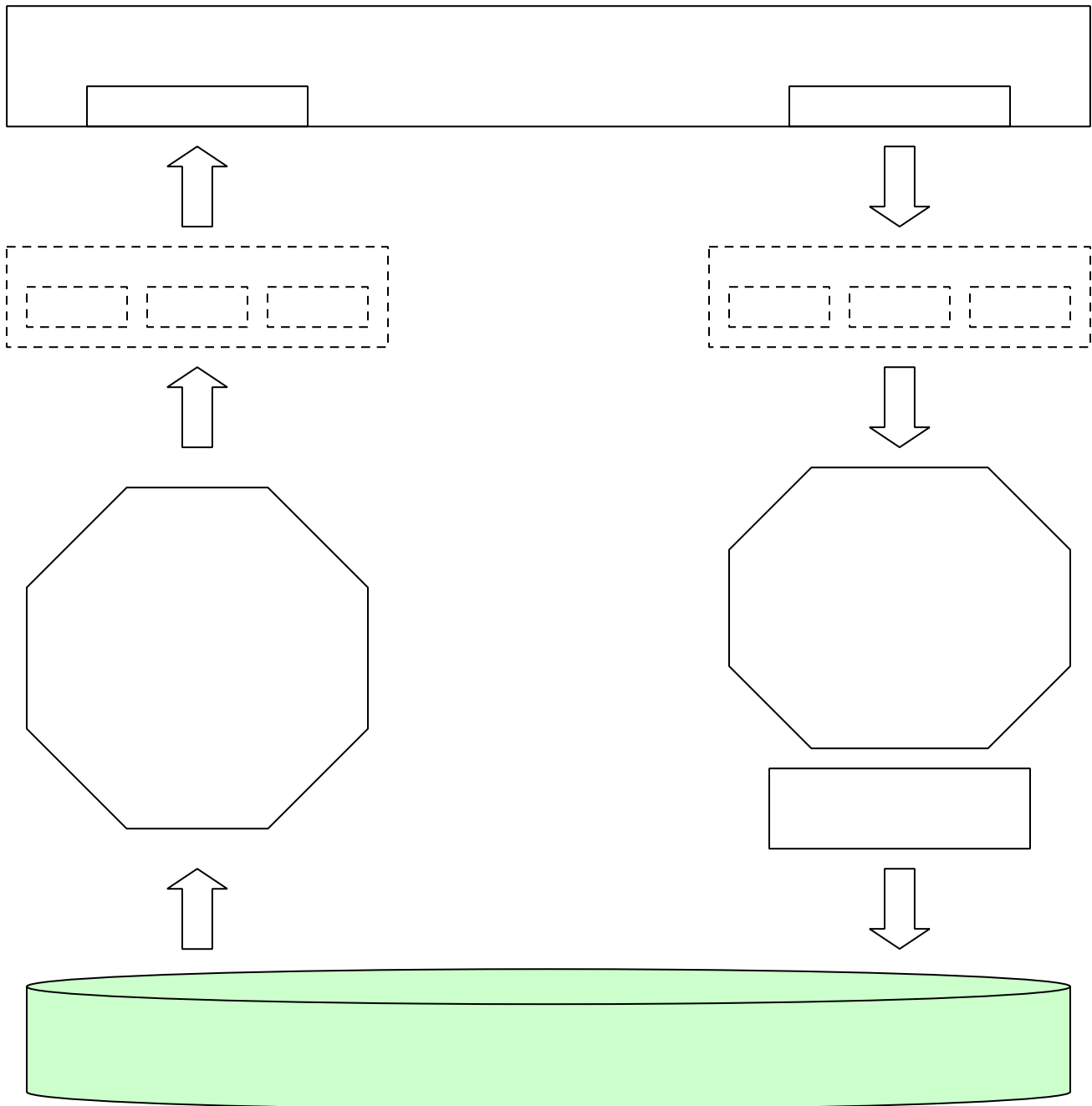
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1 Modification History

| Date | Who | Comments |
|-----------|---------|--|
| 23-May-12 | Solveda | Initial |
| 7-Jun-12 | Solveda | Added Store-Locator input feed |
| 8-Jun-12 | Solveda | Customer and Order Feed: removed Phone numbers from addresses to main area |
| 20-Jun-12 | Solveda | Added BF-Inventory-Warehouse |
| 12-Jul-12 | Solveda | Added clarification for the "Store" and "Order Status Update" feeds based on developer feedback |
| 17-Jul-12 | Solveda | More clarification for Order-Status-Updates, processing of Order-Header vs Item |
| 24-Jul-12 | Solveda | Added FROM and THRU dates for Selectable and Descriptive features. Noted that all FromDate attributes should default to current system date if not provided. Noted that all ThruDate attributes should default to null if not provided. |
| 25-Jul-12 | Solveda | Expanded the PRODUCT XML Feed to include Category, Product, Product-Assoc, Feature-Swatch and Manufacturer sections. |
| 7-Aug-12 | Solveda | Added Product Ratings feed |
| 8-Aug-12 | Solveda | Added usage of parameter FEEDS_IGNORE_REJECTED_ORDERS in the Orders export feed. |
| 14-Aug-12 | Solveda | Added SEQUENCE_NUM for Product Selectable and Descriptive Features (entity PRODUCT_FEATURE_APPL) |
| 22-Aug-12 | Solveda | Added "Feeds: Scheduled Jobs" section |
| 28-Aug-12 | Solveda | Order Feed: removed <ItemsToRemove>, <ValidateWebTotals> |
| 29-Aug-12 | Solveda | Order Feed: Included Offer-Price and line item promotions. Included ORDER_ATTRIBUTES name/value pairs. |
| 1-Nov-12 | Solveda | Replace FEEDS_IGNORE_REJECTED_ORDERS with more generic parameter ORDER_STATUS_INC_EXPORT |
| 2-Nov-12 | Solveda | Added some basic validation. Added progress, success and error logging for each feed. Set general guidelines and completed validation and logging rules for the Ratings-Feed. |
| 15-Jan-13 | Solveda | Added ProductAssocType (COMPLEMENT or ACCESSORY) for the Product Associations |
| 08-Mar-13 | Solveda | Added ProductFeatureDescription example; multi values of the same Feature Type |
| 25-Apr-13 | Solveda | Added Blue Dart delivery verification feed data |
| 21-May-13 | Solveda | Added "Tracking Number" to Order Export XML file |
| 30-May-13 | Solveda | Added "Product Attribute" to Product XML File |
| 11-Jun-13 | Solveda | Extended the BF->ERP ORDER Feed to include recent changes: * Shipping Instructions <ShippingInstructions> * Gift Card Redemption <GiftCardRedemption> * Gift Messages <OrderLineAttributes> See <i>BF-Cart-and-Checkout</i> for processing rules |
| 14-Jun-13 | Solveda | Added Product Weight to Product XML |
| 17-Jun-13 | Solveda | Added ability to "convert" files from XLS to XML |
| 17-Jun-13 | Solveda | Order export feed now has a new <OrderShipment> element as a grouping structure for one or more <OrderItems> |

| | | |
|-----------|---------|---|
| 11-Jul-13 | Solveda | CUSTOMER Feed: Removed specific definitions that used PARTY_ATTRIBUTE and created a generic CustomerAttribute structure |
| 22-Jul-13 | Solveda | CUSTOMER Feed: added attribute LOYALTY_POINT_ID (no coding required, part of CustomerAttributes); |
| 22-Jul-13 | Solveda | ORDER Feed: added loyalty discounts <CartLoyalty> |
| 03-Sep-13 | Solveda | ORDER Feed: Added Feed Details |
| 11-Sep-13 | Solveda | Removed documentation around Order Status SHIPPED. No such status exists |
| 17-Sep-13 | Solveda | SalesTax / ShippingCharge and Promotion – within OrderLine – are now nodes to accommodate multiple values for a Order Line. Added TaxPercent and TaxAuthority to OrderLineSalesTax and OrderAdjustments |
| 7-Oct-13 | Solveda | Added validation for incoming feeds |
| 9-Dec-13 | Solveda | Order Export Feed: changed OrderShipment structure to have product line item details. Added ShippingAddress (accommodate multi-address feature) Order Export Feed: changed OrderLineItems to NOT be part of the OrderShipment structure Order Status Update: ability to update by Ship-Group or Order-Items |
| 16-Dec-13 | Solveda | Added ShipGroupSequenceId to Order Adjustment and Line item order Adjustments. |
| 13-Jan-14 | Solveda | Added attribute 'count' to highest level Tag in all feeds (e.g. <BigFishOrderFeed Count="12">) |
| 16-Jan-14 | Solveda | Added "in progress" logging for BigFish -> client feeds. |
| 3-Apr-14 | Solveda | Processing based on new parm FEEDS_MASK_ACCOUNT_INFO |
| 4-Apr-14 | Solveda | Google Product Feed |

2 Visual Overview



3 UI Guideline

- Access from the Admin -> Feeds navigation option

bigfish feeds

[message-area]

| Product Load Functions | |
|---|--|
| Product Loader from BigFish Format File | Re-load the Category and Products from a BigFish format file |
| Create BigFish Empty Template File | Create an empty BigFish "template" file (XLS or XML) |
| Create BigFish File from Database | From the existing database, create a BigFish format file (XLS or XML) |
| Image Location Preferences | This will allow for the modification of the Product Loader Image Mapping file that controls the sub-directory that images should be available. |

| BigFish Feed Imports | |
|--------------------------------------|---|
| Customer Setup Feed | Import customers from your existing website |
| Order Status Changes | Import the Order Status Change file |
| Product Ratings | Import the Product Rating file |
| Stores | Import the Store file |

| BigFish Feed Exports | |
|-------------------------------------|---|
| Customers | Export all registered Customers |
| Orders | Export all placed Orders |
| Contact Us | Export all Contact Us communication events |
| Request Catalog | Export all Request Catalog communication events |
| Google Product Feed | Export Google Product Feed File |

| BlueDart Feeds | |
|-------------------------------|---|
| Pre Paid File | Import all Blue Dart Pre-Paid PIN codes |
| CoD File | Import all Blue Dart Cash on Delivery PIN codes |


| BigFish Converters | |
|--|---|
| Product Load File: XLS to XML | Convert a Product Load File from XLS to XML |
| Customers: XLS to XML | Convert a Customer File from XLS to XML |
| Order Status Changes: XLS to XML | Convert an Order Status Change File from XLS to XML |
| Product Ratings: XLS to XML | Convert a Product Ratings File from XLS to XML |
| Stores: XLS to XML | Convert a Store Upload File from XLS to XML |


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3.1 Message Area

- For the Admin Tools functionality, each subsequent page will display the appropriate success or error message.

- Messages styling will conform to the format defined in the BF-Admin-Module-General section as follows:

 Error Message

 Success Message

3.2 Validating an “ID” value

- See spec “BF Admin Module General.doc” for general validation rules of an “ID” attribute
- Messages, where appropriate, should be displayed as follows:

“The [ID Field] attribute must be alphanumeric. It may contain hyphens or underscores. Spaces and other special characters are not permitted.”
- For example:

“The MasterProductID attribute must be alphanumeric. It may contain hyphens or underscores. Spaces and other special characters are not permitted.”

4 BigFish Feed Functions

4.1 Product Load Functions

- See spec "[BF-Admin-Module-Product-Loader.doc](#)" for processing

4.2 BigFish Feed Imports

- All Import feeds should offer the same dialog box:
- If file exists, then process as per mapping in this document
- For example, the Order Status Changes:

BigFish Feed Import: Order Status Changes

Import XML File:

4.3 BlueDart Feed Imports

- Both Pre-Paid and Cash-on-Delivery import selections should offer the same dialog box:
- If file exists, then process as per mapping in this document
- For example, the BlueDart PrePaid file:

BlueDart Import: Pre Paid PIN Codes

Import XLS File:

4.4 BigFish Feed Exports

- Accessed From:
 - Directly from the Admin/Feeds menu option
 - Via a number of "Export to XML" functions in the Customers menu option, see spec "[BF Admin Module Customers.doc](#)", for more information
 - Customer
 - Contact Us
 - Request Catalog
 - Via a number of "Export to XML" functions in the Orders menu option, see spec "[BF Admin Module Orders.doc](#)", for more information
 - Orders
- Access via Customers or Orders functions:
 - The Export function needs to be aware of the actual scope of the Export

- All export functions in these specs allow for many or a single export
- If this function is accessed via a Customer or Order function then then prompt “Only Include Items that are NOT exported already?” is NOT relevant and should not be displayed
 - This is because the scope of the export has already been determined
- The “Export XML File”, by default, will be set based on which export is being requested (Customer, Contact Us Events, Request Catalog Events, Orders)
 - The visual example below assume a Customer export
 - See section “Feeds: *Scheduled Jobs*” in this document
- Options:
 - Only Include Items that are NOT exported already?
 - Not applicable if this function is accessed directly from Customer or Order export functions
 - Default to “No”
 - Yes: only extract rows is Export-Flag = TRUE
 - No: extract regardless of the Export-Flag value
 - After Exporting, set the Export Flag to TRUE?
 - Default to “No”
 - Yes: after successful export, set the Export-Flag = TRUE for all extracted rows
 - No: do not set the “Export-Flag”
 - After Exporting, allow View or Save-As function?
 - Default to “Yes”
 - Yes: use standard browser functions to allow the client to view or save the generated XML file
 - No: no further action required

| BigFish Feed Export: Customers | |
|---|--|
| Export XML File (on Server): | <input type="text" value="C:\feeds\exports\customer_20120808_093014.xml"/> |
| Only Include Items that are NOT exported already? | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| After Exporting, set the Export Flag to TRUE? | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| After Exporting, allow View or Save-As? | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| <input type="button" value="Back"/> | <input type="button" value="Export to XML"/> |

- Validation:
 - Export XML File, must have an “.xml” extension:
 - “The Export XML File should contain a valid SERVER directory and must have a .XML file extension”
- Helper Text

- Export XML File:

“This is the SERVER directory and file location of the exported data. Access to the SERVER directory is required. The file should have an XML extension”
- Include Items:

“Set to YES if you only want to exported those records that have not already been exported. This is typically used for an interim live export. Set to NO if you simply want all records to be exported, this is good for testing.”
- Set Export Flag to TRUE:

“Set to YES if after this functions exports the records you want the Export-Flag to be set to TRUE. Set to NO if you do not want this feature, this is good for testing.”
- Allow View or Save-As:

“By default the XML export file will be created on the Server. If you want to view or save the file immediately then check this option to YES.”

5 BigFish Feed Converters

5.1 Processing Overview

- This function will allow users to create a simple XLS file and have it converted to the actual XML format that is ultimate used for processing
 - Typically this will be used during testing or for clients that do not have a strong IT capability that can create XML files
- The resultant XML file is to be displayed in a separate browser “tab”
- Product Store
 - Will be derived from the “current” Product Store in the Admin Module
 - It is not required on the XLS input file
 - But it will be generated on the XML output file
- Validation is NOT required
 - These functions are to simply convert from XLS to XML
 - The resultant XML file may be used for real action, at which point validation will take place
- UI Guideline:

BigFish Converter: Order Status XLS to XML

XLS File:

5.2 Product Load File

- spec “*BF Admin Module Product Loader.doc*” for processing details

5.3 Customer File

- TODO

5.4 Order Status Changes

- This format only supports status updates at the ORDER level
 - There is to be no provision for Line Item status changes in this function
- XLS File Definition:

| XLS Column | Attribute | Example Value |
|------------|-----------------|---------------|
| A | Order ID | WS100010 |
| B | Order Status | COMPLETED |
| C | Order Ship Date | 01/31/2014 |
| D | Ship Carrier | UPS |

| | | |
|---|-----------------|-------------------|
| E | Ship Method | Next Day |
| F | Ship Tracking # | UPS-98777H77 |
| G | Order Note | Enjoy your items! |

■ Example XML Converted File:

```
<BigFishOrderStatusUpdateFeed>

  <Order>
    <ProductStoreId>PRODUCT-STORE</ProductStoreId>
    <OrderId>WS100010</OrderId>
    <OrderStatus>COMPLETED</OrderStatus>
    <OrderShipDate>2014-01-31 00:00:00</OrderShipDate>
    <OrderShipCarrier>UPS</OrderShipCarrier>
    <OrderShipMethod>Next Day</OrderShipMethod>
    <OrderTrackingNumber>UPS-98777H77</OrderTrackingNumber>
    <OrderNote>Enjoy your items!</OrderNote>
  </Order>

</BigFishOrderStatusUpdateFeed>
```

5.5 Product Ratings File

■ XLS File Definition

| XLS Column | Attribute | Example Value |
|------------|--------------|---------------|
| A | Product ID | P-123-A |
| B | Rating Score | 4.3 |

■ Example XML Converted File:

```
<BigFishProductRatingFeed>

  << <ProductRating>
    <ProductStoreId>PRODUCT-STORE</ProductStoreId>
    <ProductId>P-123-A</ProductId>
    <ProductRatingScore>4.3</ProductRatingScore>
  </ProductRating>

</BigFishProductRatingFeed>
```

5.6 Store Upload File

■ XLS File Definition

| XLS Column | Attribute | Example Value |
|------------|------------|------------------|
| A | Store ID | ST-001 |
| B | Store Code | ST-001 |
| C | Store Name | Store Number One |
| D | Country | USA |
| E | Address 1 | 1 Main Street |

| | | |
|---|-------------------|----------------|
| F | Address 2 | |
| G | Address 3 | |
| H | City or Town | Mainsville |
| I | State or Province | NY |
| J | Zip or Postcode | 12345 |
| K | Telephone Number | 1-516-111-2222 |
| L | Status | OPEN |
| M | Opening Hours | 10am to 10pm |
| N | Store Notice | |
| O | Content Spot | |
| P | GEO Code Long | |
| Q | GEO Code Lat | |

■ Example XML Converted File:

```

<BigFishStoreFeed>

  <Store>

    <ProductStoreId>PRODUCT_STORE</ProductStoreId>
    <StoreId>ST-001</StoreId>
    <StoreCode>ST-001</StoreCode>
    <StoreName>Store Number One</StoreName>

    <StoreAddress>
      <Country>USA</Country>
      <Address1>1 Main Street</Address1>
      <Address2></Address2>
      <Address3></Address3>
      <CityTown>Mainsville</CityTown>
      <StateProvince>NY</StateProvince>
      <ZipPostCode>12345</ZipPostCode>
      <StorePhone>1-516-111-2222</StorePhone>
    </StoreAddress>

    <Status>OPEN</Status>
    <OpeningHours>10am to 10pm</Opening Hours>
    <StoreNotice></StoreNotice>
    <StoreContentSpot></StoreContentSpot>

    <GEOCodeLong></GeoCodeLong>
    <GEOCodeLat></GeoCodeLat>

  </Store>

</BigFishStoreFeed>

```

6 Processing Overview

6.1 Incoming Feeds: List

- **INCOMING FEEDS:** Files provided by the Client and data imported INTO BigFish
 - Product Load (see spec *BF-Admin-Module-Product-Loader*). This file is used primarily as an initial way to populate the Product Catalog but is also used for ongoing mass updates.
 - Product Update. This file is used as a simple way to update product key information that is most likely to be changeable on a frequent basis.
 - Order Status Updates. This is a file that notifies BigFish of any order status updates (such as completed or cancelled).
 - Product Ratings: This is a file, typically from a third-party Ratings & Reviews solution (like Reevo, BazaarVoice or PowerReviews) that is used to update Product Ratings.
 - Store Feed: This is a file that contains all the available Stores for a client, to be exposed via a Store-Locator function in eCommerce.

NOTE: All files are converted from the defined BigFish XML format into standard OFBiz XML load formats. If certain attributes are "blank" then OFBiz will ignore the attribute, rather than set to "blank".

For example:

A Customer (PARTY) may have the following attribute setup in the BigFish database:

```
PARTY_ATTRIBUTE.ATTR_NAME = "CLIENT_ATTRIBUTE"  
PARTY_ATTRIBUTE.ATTR_VALUE = "XYZ"
```

The Customer Import feed may have the snippet:

```
<CustomerAttribute>  
  
  <Attribute>  
    <Name>CLIENT_ATTRIBUTE</Name>  
    <Value></Value>  
  </Attribute>  
  
</CustomerAttribute>
```

In this case, the attribute CLIENT_ATTRIBUTE will NOT be updated via the Import process. The ATTR_VALUE will remain as "XYZ".

6.2 Outgoing Feeds: List

- **OUTGOING FEEDS:** Files created by BigFish to be imported into the Client back-end ERP system
 - BigFish Customers. A file of all registered customers that are extracted from BigFish.

- BigFish Orders. A file of all new orders placed on the BigFish platform. These orders are imported into the back-end ERP system for fulfillment.
- BigFish Contact Us Events. A file of all "contact us" requests made via the eCommerce site.
- BigFish Request Catalog Events. A file of all "request catalog" requests made via the eCommerce site.

6.3 **Outgoing Feeds: masking sensitive account information**

- The system parameter FEEDS_MASK_ACCOUNT_INFO, if TRUE, will dictate how sensitive account information is passed on a BigFish-to-Client feed

- Processing Rules:

"*" + last-4-characters of account info

- Examples:

| Acct Info | DB Value | Feed Balue |
|----------------|------------------|------------|
| Credit Card | 4111111111111111 | *1111 |
| Bank Acct No | 987987987 | *7987 |
| Routing Number | 100421 | *0421 |

6.4 **Export Status**

- When extracting information the appropriate attribute IS_DOWNLOADED is checked
 - Any information with a value of NOT "Y" should be included for extract
- For feeds from BigFish to the client back-end ERP system there needs to be a mechanism to track when data has been "exported", with a timestamp
- This applies to:
 - Customers
 - Orders
 - Contact Us Events
 - Request Catalog Events
- This will set the appropriate attributes:
 - IS_DOWNLOADED
 - DATETIME_DOWNLOADED
- See *BF-Admin-Module-Customers* and *BF-Admin-Module-Orders* for details of setting the Export Status and timestamp

6.5 Processing Considerations

- Date format will be YYYY-MM-DD
- Time format will be HH:MM:SS
- Special characters, if any
- Examples:

```
<ExpiryDate>2013-11-30 00:00:00</ExpiryDate>
<ReconciliationId>1503668631</ReconciliationId>
<SubscriptionId>3370034925550176056426</SubscriptionId>
<Amount>523.28</Amount>
<AuthDateTime>2012-05-14 09:51:34</AuthDateTime>
```

6.6 Validation and Logging

- Validation is noted for each Feed, see specific sections
- Logging should be isolated to an additional log file so that all Feed processing progress can be tracked in a single log file
 - It is understood that for Import jobs that there is a two step process:
 - (1) Read the Import XML, validate and prepare an OFBiz-ready XML
 - (2) Use the OFBiz-ready XML to load data
 - If there are failures (for example: foreign key constraints) in Step (2) these will be logged in the standard log files.
 - However, the validation steps should attempt to minimize any such errors.
 - *TODO: DEV to advise as to how this may work, how files are named, how log files are recycled, etc. Once this is finalized it will be necessary to build a simple "Feeds Log Viewer" into the Admin / Tools functions*
- Logging will indicate the following:
 - When the processing begins
 - In progress logging, displaying a relevant piece of information like an Order#
 - Errors or Warnings as appropriate
 - When the process finishes, a summary of results with a clear indication of Success or Failure
- Each log line will clearly indicate:
 - Date and Time
 - yyyy-mm-dd hh:mm:ss:mmm
 - Job ID
 - Job Name
 - Service Name
 - Feed or Scheduled Job indicator
 - "FEED" or "SCHEDULED"
 - Specific message, see sections below
 - A separator of three spaces will be used for readability

- NOTE: it is important that if several jobs are running at the same time and logging becomes mixed, that it is easy to extract, sort or filter in order to get logging statements for a single job

- Example of a log line:

```
2012-11-02 14:23:00.100    Job ID: 109877    Job Name: SomeJob    ServiceName: bigFishCustomerExport
[FEED / SCHEDULED]    [specific-message]
```

- [specific message] guidelines:

- Started:
 - messages will appear as follows:

```
STARTED
```

- Finished:
 - messages will appear as follows:

```
FINISHED - Job Status is [SUCCESS / FAILURE]
```

- Errors:
 - will appear with 3 asterisks indicator
 - an error will ignore the row being processed
 - For example:

```
*** ERROR *** Row #n is ignored. [specific error]
```

- Warning:
 - will appear with a single asterisk indicator
 - warnings will continue to process the data
 - messages will appear as follows:

```
* WARNING * Row #n. [specific warning]
```

- In Progress
 - messages will appear as follows ("row" refers to a specific major node of an XML file either being read or generated, see guidelines in each section):

```
IN PROGRESS: [Processing row #3 Product ID: 100987]
```

```
ROW COMPLETE: [Processed row #3 Product ID: 100987]
```

- Final Logging (Client -> BigFish Feed)

- Display the header "Count", if supplied (XML only)
- Count the number of <Entity> entries that were successfully processed, in error and number of warnings

```
*****
```

```
SUMMARY OF FEED PROCESSING
```

```
COUNT SUPPLIED IN FILE HEADER: 24
```

TOTAL <Entity> RECORDS IN FILE: 24
TOTAL <Entity> RECORDS SUCCESSFULLY PROCESSED: 21
TOTAL <Entity> RECORDS IN ERROR: 3

■ Final Logging (BigFish -> Client Feed)

- Display the header "Count" (XML only)
- Count the number of <Entity> entries that were initially extracted and successfully processed (included in the file)

SUMMARY OF FEED PROCESSING
TOTAL ORDER RECORDS EXTRACTED FROM DATABASE: 28
TOTAL <Entity> RECORDS IN FILE: 24
COUNT SUPPLIED IN FILE HEADER: 24

- Logging applies if Feeds are executed as described in this document, or as part of a Scheduled Job, see spec "*BF Admin Module Services and Scheduled Jobs.doc*"

7 Product Update

7.1 Overview

- Type of Feed: Client to BigFish
- Description: File is the same as the primary Product Load feed. See spec "*BF-Admin-Module-Product-Loader.doc*" for additional details

7.2 Validations

- See spec "*BF Admin Module Product Loader.doc*" for additional information

7.3 Logging

- In Progress logging:
 - The MasterProductId and ProductId is used for all In-Progress and Row-Complete logging
- IN PROGRESS: [Processing row #3 Master-Product-ID: 100981; Product ID: 100987]

8 Product Ratings Updates

8.1 Overview

- Type of Feed: Client to BigFish
- Description: Allows for back-end ERP, or third party provider, to provide Product Ratings into BigFish.

8.2 Feed details

| Attribute | | Description |
|--------------------------|-----|--|
| BigFishProductRatingFeed | | |
| Count | Opt | The number of <ProductRating> records |
| ProductRating | Req | |
| ProductStoreId | Req | Used to identify the Product Store |
| ProductId | Opt | A BigFish Product Identifier |
| Sku | Opt | A "Good Identification" SKU Identifier |
| ProductRatingScore | Req | The actual Rating. Numeric value with up to 1 decimal place. This should be stored in the attribute PRODUCT_CALCULATED_INFO.AVERAGE_CUSTOMER_RATING. The value supplied overwrites the existing value. |

8.3 Identifying the Product

- If <ProductId> is supplied then this will be used, the <Sku> is ignored
- If <ProductId> is NOT supplied, then the <Sku> MUST be available
- If neither identifier is available then the record cannot be processed and should be skipped.
- If an identifier is used but the Product cannot be located in the Product entities, then the record cannot be processed and should be skipped.

8.4 Validations

| | |
|--------------------|--|
| Count | If provided, the Count value must match the number of <ProductRating> entries (ERROR): "File has a mismatching Count. Count is [Count]. Number of <ProductRating> entries is [NoOfEntries]" |
| ProductStoreId | Must match to an existing Product Store in the system (ERROR): "Unable to match to an existing Product Store [ProductStoreId]" |
| ProductRatingScore | Must be a valid Number (ERROR): "ProductRatingScore [ProductRatingScore] must be a valid number" |

| | |
|-----------------|--|
| | between 0 and 10" |
| ProductId / SKU | <p>If ProductId and SKU are both blank (ERROR): "One of either Product Id or Sku must be supplied".</p> <p>If ProductID is supplied (ERROR): "Unable to match to an existing Product [ProductId]"</p> <p>If SKU supplied and ProductId did not find a match, or is blank (ERROR): "Unable to match to an existing Sku [Sku]"</p> <p>Matched product must be a FINISHED_GOOD or VIRTUAL (ratings are not applicable on the Variant level) (ERROR): "Ratings are only applicable for FINISHED_GOOD or VIRTUAL types"</p> |

8.5 Logging

■ In Progress logging:

- The ProductId is used for all In-Progress and Row-Complete logging

IN PROGRESS: [Processing row #3 Product ID: 100987]

■ Final logging:

- Count the number of <ProductRating> entries that were successfully processed

8.6 Feed Example

```
<BigFishProductRatingFeed Count="2">
```

```
  << <ProductRating>
    <ProductStoreId>FH</ProductStoreId>
    <ProductId>181818</ProductId>
    <ProductRatingScore>4.3</ProductRatingScore>
  </ProductRating>
```

```
  <ProductRating>
    <ProductStoreId>FH</ProductStoreId>
    <Sku>CAMILLA</Sku>
    <ProductRatingScore>3.9</ProductRatingScore>
```

```
  << </ProductRating>
```

```
</BigFishProductRatingFeed>
```

9 Order Status Updates

9.1 Overview

- Type of Feed: Client to BigFish
- Description: Allows for back-end ERP system to provide updates to an existing BigFish Order.

9.2 Feed Details

| Attribute | | Description |
|------------------------------|-----|---|
| BigFishOrderStatusUpdateFeed | Req | |
| Count | Opt | The number of <Order> records |
| Order | Req | |
| ProductStoreId | Req | Used to identify the Product Store |
| OrderId | Req | The key identifier of the Order to be updated |
| OrderStatus | Req | Valid values are COMPLETED or CANCELLED |
| OrderShipDate | Opt | The actual shipping date |
| OrderShipCarrier | Opt | The Carrier used to ship the Item, e.g. "UPS", "FEDEX" |
| OrderShipMethod | Opt | The Method used, e.g. "OVERNIGHT", "SECOND_DAY" |
| OrderTrackingNumber | Opt | The Carrier tracking number used for this shipment |
| OrderNote | Opt | Freeform note |
| OrderItem | Opt | Order Item details: |
| ProductId | Opt | The key identifier for the Item to be updated. Maps to ORDER_ITEM.PRODUCT_ID |
| ShipGroupSequenceId | Opt | The key identifier of the ShipGroup to be updated |
| SequenceId | Opt | The key identifier to the Item to be updated. Maps to ORDER_ITEM.ORDER_ITEM_SEQUENCE_ID |
| OrderItemStatus | Req | Valid values are COMPLETED or CANCELLED |
| OrderItemShipDate | Opt | The actual shipping date for the item |
| OrderItemShipCarrier | Opt | Carrier for the Item |
| OrderItemShipMethod | Opt | Shipping Method for the Item |
| OrderItemTrackingNumber | Opt | The Carrier tracking number used for this item |

9.3 Processing Notes

- Matching Options
 - The Order Status feed can match to either a Shipping Group using the <ShipGroupSequenceId> attribute
OR
 - The Order Item by using the <SequenceId> attribute
 - Options are:
 - Match on <ShipGroupSequenceId>, do not provide <SequenceId> then:
Shipping the entire Ship-Group

- Match on <SequenceId>, do not provide <ShipGroupSequenceId> then:
Shipping a specific Order Line Item (this may be within one or more Ship-Groups)
- Match on <ShipGroupSequenceId> and <SequenceId> then:
Shipping a specific line item within a Ship-Group

■ Matching to a specific Order Line Item:

- When processing an OrderItem the ProductId tag should be used as the primary attribute
- If a SequenceId is supplied then processing must match using both the ProductId and the SequenceId in order to match to a SINGLE specific line item
- If the SequenceId is NOT supplied, then processing will match to one or more rows for the ProductId supplied

*** PROBLEM TO RESOLVE

E.g.

1. Steven Singer order of 1 ring and 1 necklace
2. One shipping group is created (for one address)
 - Ship-group 00001
 - Ring, qty: 1
 - Necklace, qty: 1
3. ORDER feed file exported for SS upload
4. Singer ships the ring ONLY, Order Status update as follows:
 - <ShipGroupSequenceId>00001</>
 - <ProductId>ring</>
 - <Qty>1</>
 - <Tracking#>ups123</>
 - etc
5. Standard processing will handle this
6. HOWEVER, another Ship-Group is created for the necklace
 - Ship-group 00001
 - Ring, qty: 1
 - Necklace, qty: 1
 - COMPLETED
 - Ship-group 00002
 - Ring, qty: 1
 - Necklace, qty: 1
 - APPROVED (open)
7. PROBLEM: SS only knows about the original Ship-Group info given to them in step 3
8. Singer ships the necklace at a later date, Order Status update as follows:
 - <ShipGroupSequenceId>00001</>
 - <ProductId>necklace</>
 - <Qty>1</>
 - <Tracking#>ups999</>
 - etc

This is solvable if in Step 6 we create a new Ship-Group of 00002 and associate the COMPLETED info to it (Ring, Qty 1). Then the original Ship-Group 00001 will have the open Necklace. In Step 8 when the Necklace is shipped then it will match.

Praveen: understand – doable?

9.4 Feed Example

```
<BigFishOrderStatusUpdateFeed Count="2">

  <Order>
    <ProductStoreId>FH</ProductStoreId>
    <OrderId>200001</OrderId>
    <OrderStatus>COMPLETED</OrderStatus>
    <OrderShipDate>2011-10-12 02:30:00</OrderShipDate>
    <OrderShipCarrier>FEDEX</OrderShipCarrier>
    <OrderShipMethod>NEXT_DAY</OrderShipMethod>
    <OrderTrackingNumber>12345</OrderTrackingNumber>
    <OrderNote>All items shipped in a single box</OrderNote>
    <OrderItem>
      <ShipGroupSequenceId>00001</ShipGroupSequenceId>
    </OrderItem>
  </Order>

  <Order>
    <ProductStoreId>FH</ProductStoreId>
    <OrderId>200197</OrderId>
    <OrderNote>One Order Item is completed</OrderNote>
    <OrderItem>
      <ProductId>1000435</ProductId>
      <SequenceId>00001</SequenceId>
      <ShipGroupSequenceId>00001</ShipGroupSequenceId>
      <OrderItemStatus>COMPLETED</OrderItemStatus>
      <OrderItemShipDate>2011-10-12 00:00:00</OrderItemShipDate>
      <OrderItemCarrier>UPS</OrderItemCarrier>
      <OrderItemShipMethod>STANDARD</OrderItemShipMethod>
      <OrderItemTrackingNumber>12345</OrderItemTrackingNumber>
    </OrderItem>
  </Order>

</BigFishOrderStatusUpdateFeed>
```

9.5 Processing Rules

■ Whole Order Shipped

- for the most part, client feeds will include just the <Order> block of XML information
- In this case ALL ITEMS within the Order should reflect the same information

```
<Order>
  <ProductStoreId>FH</ProductStoreId>
  <OrderId>200001</OrderId>
  <OrderStatus>COMPLETED</OrderStatus>
  <OrderShipDate>2011-10-12 02:30:00</OrderShipDate>
  <OrderShipCarrier>FEDEX</OrderShipCarrier>
  <OrderShipMethod>NEXT_DAY</OrderShipMethod>
  <OrderTrackingNumber>12345</OrderTrackingNumber>
```

```
<OrderNote>All items shipped in a single box</OrderNote>
</Order>
```

■ Shipping Group Shipped

```
<Order>
  <ProductStoreId>FH</ProductStoreId>
  <OrderId>200197</OrderId>
  <OrderItem>
    <ShipGroupSequenceId>00001</ShipGroupSequenceId>
    <OrderItemStatus>COMPLETED</OrderItemStatus>
    <OrderItemShipDate>2011-10-12 00:00:00</OrderItemShipDate>
    <OrderItemCarrier>UPS</OrderItemCarrier>
    <OrderItemShipMethod>STANDARD</OrderItemShipMethod>
    <OrderItemTrackingNumber>UPS-987654</OrderItemTrackingNumber>
  </OrderItem>
</Order>
```

■ Partial Order Shipped

- In other cases, an individual ITEM may be shipped
- Only this ITEM should reflect the shipping information
 - CANCELLED item, shipping information is not required

```
<Order>
  <ProductStoreId>FH</ProductStoreId>
  <OrderId>200197</OrderId>
  <OrderItem>
    <ProductId>1000435</ProductId>
    <SequenceId>00001</SequenceId>
    <OrderItemStatus>CANCELLED</OrderItemStatus>
  </OrderItem>
</Order>
```

- COMPLETED item, shipping information is provided

```
<Order>
  <ProductStoreId>FH</ProductStoreId>
  <OrderId>200197</OrderId>
  <OrderItem>
    <ProductId>1000435</ProductId>
    <SequenceId>00001</SequenceId>
    <OrderItemStatus>COMPLETED</OrderItemStatus>
    <OrderItemShipDate>2011-10-12 00:00:00</OrderItemShipDate>
    <OrderItemCarrier>UPS</OrderItemCarrier>
    <OrderItemShipMethod>STANDARD</OrderItemShipMethod>
    <OrderItemTrackingNumber>UPS-987654</OrderItemTrackingNumber>
  </OrderItem>
</Order>
```

■ Multiple Partial Order Shipments

- BigFish needs to accommodate multiple shipments of ITEMS and make the determination when ALL items have been shipped so that the ORDER information can have the correct status
- Consider:
 - Order has 3 items
 - Day n: ITEM-1 is shipped
 - Day n+1, ITEM-2 and ITEM-3 are shipped
 - At this point the ORDER (Header) Status should reflect the COMPLETED status since ALL items have been shipped
- Changing the Carrier information
 - NOTE: if the order is "Store Pickup" then the shipment related fields will be ignored
 - In some cases a customer may have selected the Carrier and Shipping Method of "UPS – Next Day"
 - If the client chooses to use "Fedex – Next Day" then the feed would reflect a new Carrier (Fedex) and Shipping Method (Next Day)
 - The Order (Header or Item as appropriate) should be modified to reflect the new information (a new ship group is created, old ship group is removed)
 - An error will be thrown if the new Carrier / Shipping Method is not available

9.6 **General Validation**

| | |
|----------------|--|
| Count | <p>If provided, the Count value must match the number of <Order> entries (ERROR):</p> <p>"File has a mismatching Count. Count is [Count]. Number of <Order> entries is [NoOfEntries]"</p> |
| ProductStoreId | <p>Must match to an existing Product Store in the system (ERROR):</p> <p>"Unable to match to an existing Product Store [ProductStoreId]"</p> |
| OrderId | <p>Must match to an existing order in the system (ERROR):</p> <p>"Unable to match to an existing Order [OrderId]"</p> <p>Must match based on ProductStore (ERROR):</p> <p>"Unable to match with Order Product Store [ProductStoreId]"</p> |
| OrderStatus | <p>Must be either "COMPLETED" or "CANCELLED" (ERROR):</p> <p>"Order Status [OrderStatus] must be either COMPLETED or CANCELLED"</p> <p>Only applicable if the existing status is "APPROVED" (ERROR):</p> <p>"Changing status is only applicable for Orders with an existing status of APPROVED. Current status is [CurrentStatus]"</p> |

| | |
|--------------------------------------|---|
| | Also applies to OrderItemStatus |
| OrderShipDate | <p>Must be a valid date (ERROR):</p> <p>"The Order Ship Date [OrderShipDate] must be a valid date"</p> <p>If Provided, the date cannot be before the Order created date (ERROR):</p> <p>"The Order Ship Date can not be before the Order Created Date"</p> <p>Also applies to OrderItemShipDate</p> |
| OrderShipCarrier | <p>Must match to an existing Carrier (ERROR):</p> <p>"The Order Ship Carrier [OrderShipCarrier] must match to an existing Carrier in the system"</p> <p>Also applies to OrderItemShipCarrier</p> |
| OrderShipMethod | <p>Must match to an existing Ship Method (ERROR):</p> <p>"The Order Ship Method [OrderShipMethod] must match to an existing Shipping Method in the system"</p> <p>Also applies to OrderItemShipMethod</p> |
| OrderShipCarrier/ OrderShipMethod | <p>OrderShipCarrier supplied, OrderShipMethod supplied, must match to existing Carrier Shipping method (ERROR):</p> <p>"Unable to match to an existing Carrier Shipping Method using Carrier [OrderShipCarrier] and Ship Method [OrderShipMethod]"</p> <p>Also applies to OrderItemShipMethod</p> |

9.7 **Product and Ship-Group Validation**

| | |
|--------------------------|--|
| No Ids supplied | <p>No identifiers supplied (ERROR):</p> <p>"At least one of ShipGroupSequenceId, ProductId or SequenceId must be supplied for Order [OrderId]"</p> |
| ProductId and SequenceId | If both ProductId and SequenceId are supplied then ignore SequenceId |
| ShipGroupSequenceId | <p>If supplied, validate (ERROR):</p> <p>"Ship Group Sequence ID [ShipGroupSequenceId] does not reference a Ship-Group for Order [OrderId]"</p> |
| ProductId | <p>If supplied, validate (ERROR):</p> <p>"Product Id does not reference a Product for Order [ORDER_ID]"</p> |
| SequenceId | <p>If supplied, validate (ERROR):</p> <p>"Sequence Id does not reference a Product for Order [ORDER_ID]"</p> |
| Combination | ShipGroupSequenceId / ProductId supplied, SequenceId not supplied (if it supplied it is ignored, see above) (ERROR): |

| | |
|-------------|---|
| | "Ship Group Sequence ID [ShipGroupSequenceId] and Product Id [ProductId] does not match to a shipping item for Order [OrderId]" |
| Combination | ShipGroupSequenceId / SequenceId supplied, ProductId not supplied (ERROR): "Ship Group Sequence ID [ShipGroupSequenceId] and Sequence Id [SequenceId] does not match to a shipping item for Order [OrderId]" |

9.8 **Logging**

- In Progress logging:

- The OrderId is used for all In-Progress and Row-Complete logging

IN PROGRESS: [Processing row #3 Order ID: 500123]

- Final logging:

- Count the number of <Order> entries that were successfully processed

10 Stores

10.1 Overview

- Type of Feed: Client to BigFish
- Description: Allows for back-end ERP system to provide Store updates
- See spec “*BF Admin Module Stores*” for additional information and technical mapping

10.2 Feed details

| Attribute | | Description |
|------------------|-----|--|
| BigFishStoreFeed | Req | |
| Count | Opt | The number of <Store> records |
| Store | Req | |
| ProductStoreId | Req | Used to identify the Product Store |
| StoreId | Opt | Primary key for PARTY.PARTY_ID. Use if supplied on the feed, else generate a unique ID for a new Store |
| StoreCode | Req | The key identifier of the Store |
| StoreName | Req | The actual name of the Store |
| StoreAddress | Req | |
| Country | Req | Country code |
| Address1 | Req | Address Line 1 |
| Address2 | Opt | Address Line 2 |
| Address3 | Opt | Address Line 3 |
| CityTown | Req | City or Town |
| StateProvince | Req | State or Province |
| ZipPostCode | Req | Zip Code or Postal Code |
| StorePhone | Opt | Store Telephone Number |
| OpeningHours | Opt | Text |
| StoreNotice | Opt | Notice |
| StoreContentSpot | Opt | Store Content Spot |
| Status | Req | Open or Closed |
| GEOCodeLong | Opt | GEO Code: Longitude |
| GEOCodeLat | Opt | GEO Code: Latitude |

10.3 Feed Example

```
<BigFishStoreFeed Count="1">
  <Store>
    <ProductStoreId>FH</ProductStoreId>
    <StoreId>123</StoreId>
    <StoreCode>123</StoreCode>
    <StoreName>Manhattan Store</StoreName>
    <StoreAddress>
      <Country>USA</Country>
      <Address1>16622 Evening Star Drive</Address1>
```

```

        <Address2></Address2>
        <Address3></Address3>
        <CityTown>Round Hill</CityTown>
        <StateProvince>VA</StateProvince>
        <ZipPostCode>20141</ZipPostCode>
        <StorePhone>1-516-901-1828</StorePhone>
    </StoreAddress>

    <OpeningHours>M-F 9am to 6pm; Sat 11am to 3pm; Closed Sun</Opening Hours>
    <StoreNotice>Closed on 25-Dec</StoreNotice>
    <StoreContentSpot></StoreContentSpot>
    <Status>Open</Status>

    <GEOCodeLong>37.564433</GeoCodeLong>
    <GEOCodeLat>-122.778541</GeoCodeLat>

</Store>

</BigFishStoreFeed>

```

10.4 Validation & Logging

| | |
|----------------|---|
| Count | <p>If provided, the Count value must match the number of <Store> entries (ERROR):</p> <p>"File has a mismatching Count. Count is [Count]. Number of <Store> entries is [NoOfEntries]"</p> |
| ProductStoreId | <p>Must match to an existing Product Store in the system (ERROR):</p> <p>"Unable to match to an existing Product Store [ProductStoreId]"</p> |

10.5 Logging

- In Progress logging:
 - The StoreId is used for all In-Progress and Row-Complete logging

IN PROGRESS: [Processing row #3 Store ID: 123]
- Final logging:
 - Count the number of <Store> entries that were successfully processed

11 BigFish Customers Feed

11.1 Overview

- Type of Feed:
 - BigFish to Client
 - Client to BigFish
- Description:
 - BigFish to Client:
 - A feed from BigFish of all Customers, typically to be imported into the client back-end ERP system
 - Typically scheduled to run at least daily
 - Client to BigFish:
 - A feed that could be used to load all initial customer data.
 - This could be used to setup all previously registered customers so they do not need to re-register in the new BigFish implementation.
 - Typically run once for initial setup, but could be scheduled to synchronize customer data from other channels

11.2 Feed details

| Attribute | | Description |
|---------------------|-----|--|
| BigFishCustomerFeed | Req | |
| Count | Opt | The number of <Customer> records |
| Customer | Req | |
| ProductStoreId | Req | Used to identify the Product Store |
| CustomerId | Opt | Primary key for PARTY.PARTY_ID. Client to BigFish: use if supplied on the feed, else generate a unique ID |
| FirstName | Req | PERSON.FIRST_NAME |
| LastName | Req | PERSON.LAST_NAME |
| DateRegistered | Opt | PARTY.CREATED_STAMP |
| EmailAddress | Req | CONTACT_MECH.INFO_STRING |
| EmailOptIn | Opt | PARTY_CONTACT_MECH.ALLOW_SOLICITATION |
| HomePhone | Req | TELECOM_NUMBER.CONTACT_NUMBER |
| CellPhone | Opt | TELECOM_NUMBER.CONTACT_NUMBER |
| WorkPhone | Opt | TELECOM_NUMBER.CONTACT_NUMBER |
| WorkPhoneExt | Opt | |
| BillingAddress | Opt | |
| ToName | Opt | POSTAL_ADDRESS.TO_NAME |
| Country | Req | POSTAL_ADDRESS.COUNTRY_GEO_ID |
| Address1 | Req | POSTAL_ADDRESS.ADDRESS_1 |
| Address2 | Opt | POSTAL_ADDRESS.ADDRESS_2 |
| Address3 | Opt | POSTAL_ADDRESS.ADDRESS_3 |
| CityTown | Opt | POSTAL_ADDRESS.CITY |
| StateProvince | Opt | POSTAL_ADDRESS.STATE_PROVINCE_GEO_ID |
| ZipPostCode | Req | POSTAL_ADDRESS.POSTAL_CODE |

| | | |
|-------------------|-----|--|
| ShippingAddress | Opt | |
| ToName | Opt | POSTAL_ADDRESS.TO_NAME |
| Country | Req | POSTAL_ADDRESS.COUNTRY_GEO_ID |
| Address1 | Req | POSTAL_ADDRESS.ADDRESS_1 |
| Address2 | Opt | POSTAL_ADDRESS.ADDRESS_2 |
| Address3 | Opt | POSTAL_ADDRESS.ADDRESS_3 |
| CityTown | Opt | POSTAL_ADDRESS.CITY |
| StateProvince | Opt | POSTAL_ADDRESS.STATE_PROVINCE_GEO_ID |
| ZipPostCode | Req | POSTAL_ADDRESS.POSTAL_CODE |
| UserLogin | Opt | |
| UserName | Req | USER_LOGIN.USER_LOGIN_ID |
| Password | Req | USER_LOGIN.CURRENT_PASSWORD (see note) |
| UserEnabled | Opt | USER_LOGIN.ENABLED (Y/N) |
| UserIsSystem | Opt | USER_LOGIN.IS_SYSTEM(Y/N) |
| CustomerAttribute | Opt | PARTY_ATTRIBUTE: iterate |
| Name | Req | PARTY_ATTRIBUTE.ATTR_NAME |
| Value | Req | PARTY_ATTRIBUTE.ATTR_VALUE |

11.3 Processing Notes

■ CURRENT_PASSWORD

- BigFish to Client:
 - This field should be left BLANK since it is not appropriate for passwords to be included in the XML file
- Client to BigFish:
 - For Clients who need to convert existing customers to the new BigFish implementation the CURRENT_PASSWORD should be passed as "plain text"
 - The Import service must properly encrypt the password when inserting the row to the database
 - Alternatively, the CURRENT_PASSWORD could be passed as encrypted, using the SHA-1/MD5 encryption algorithm (not sure if this is possible)

11.4 Customer Attributes

- The entity PARTY_ATTRIBUTE may contain information about the Customer or information about the state of the PARTY
 - These are stored in a named pair using attributes ATTR_NAME and ATTR_VALUE
- Typical attributes may be:
 - TITLE
 - GENDER
 - DOB_MMDDYYYY
 - DOB_DDMMYYYY
 - DOB_MMDD
 - DOB_DDMM
 - PARTY_EMAIL_PREFERENCE
 - IS_DOWNLOADED

- LOYALTY_POINT_ID
- In addition, any Custom Party Attributes that are defined by a client, and collected via the Registration page are stored in the PARTY_ATTRIBUTE entity
 - See spec "*BF Customer Account Management.doc*" for additional details

11.5 Feed Example

```
<BigFishCustomerFeed Count="1">

  <Customer>

    <ProductStoreId>FH</ProductStoreId>
    <CustomerId>7324126</CustomerId>

    <FirstName>Sharon</FirstName>
    <LastName>Bean</LastName>
    <Gender>MALE</Gender>
    <DateRegistered>2012-05-14 09:47:33.772</DateRegistered>
    <EmailAddress>slwozny@aol.com</EmailAddress>
    <EmailFormat>HTML</EmailFormat>
    <EmailOptIn>TRUE</EmailOptIn>

    <HomePhone>222-999-8888</HomePhone>
    <CellPhone>333-444-8181</CellPhone>
    <WorkPhone>444-555-9191</WorkPhone>
    <WorkPhoneExt>221</WorkPhoneExt>

    <BillingAddress>
      <Country>USA</Country>
      <Address1>16622 Evening Star Drive</Address1>
      <Address2></Address2>
      <Address3></Address3>
      <CityTown>Round Hill</CityTown>
      <StateProvince>VA</StateProvince>
      <ZipPostCode>20141</ZipPostCode>
    </BillingAddress>

    <ShippingAddress>
      <Country>USA</Country>
      <Address1>16622 Evening Star Drive</Address1>
      <Address2></Address2>
      <Address3></Address3>
      <CityTown>Round Hill</CityTown>
      <StateProvince>VA</StateProvince>
      <ZipPostCode>20141</ZipPostCode>
    </ShippingAddress>

    <UserLogin>
      <UserName>slwozny@aol.com </UserName>
      <Password>bigfish123456</Password>
    </UserLogin>

    <CustomerAttribute>

      <Attribute>
        <Name>RING_SIZE</Name>
        <Value>Five</Value>
      </Attribute>

      <Attribute>
```

```

        <Name>IS_DOWNLOADED</Name>
        <Value>TRUE</Value>
    </Attribute>

    <Attribute>
        Repeat for all Attributes
    </Attribute>

</CustomerAttribute>

</Customer>

</BigFishCustomerFeed>

```

11.6 Validation

| | |
|-------------------------|---|
| Count | <p>If provided, the Count value must match the number of <Customer> entries (ERROR):</p> <p>"File has a mismatching Count. Count is [Count]. Number of <Customer> entries is [NoOfEntries]"</p> |
| ProductStoreId | <p>Must match to an existing Product Store in the system (ERROR):</p> <p>"Unable to match to an existing Product Store [ProductStoreId]"</p> |
| CustomerId and UserName | <p>The UserLogin.UserName must be unique (ERROR):</p> <p>It cannot already be in use by another CustomerId definition</p> |

11.7 Logging

■ In Progress logging:

- The CustomerId is used for all In-Progress and Row-Complete logging

IN PROGRESS: [Processing row #3 Customer ID: 123000]

■ Final logging:

- Count the number of <Customer> entries that were successfully processed

12 BigFish Orders

12.1 Overview

- Type of Feed: BigFish to Client
- Description: A feed from BigFish of all Orders, typically to be imported into the client back-end ERP system
- System Parameter ORDER_STATUS_INC_EXPORT should be used:
 - Typically this parameter will be set to just "ORDER_APPROVED"
 - Processing should allow for a comma-separated list of multiple values in this parameter

12.2 Feed Details

| Attribute | | Description |
|-----------------------|-----|--|
| BigFishOrderFeed | Req | |
| Count | Opt | The number of <Order> records |
| Order | Req | |
| OrderHeader | Req | |
| OrderId | Req | ORDER_HEADER.ORDER_ID |
| OrderDate | Opt | ORDER_HEADER.ODER_DATE |
| EntryDate | Opt | ORDER_HEADER.ENTRY_DATE |
| StatusId | Req | ORDER_HEADER.STATUS_ID |
| CreatedBy | Opt | ORDER_HEADER.CREATED_BY (User Login Id) |
| ProductStoreId | Req | ORDER_HEADER.PRODUCT_STORE_ID |
| OrderSubTotal | Opt | Calculated (Order Item Sub Total) |
| OrderTotalItem | Opt | Calculated (Total number of order items) |
| OrderTotalAdjustments | Opt | Calculated (Total order adjustment amounts; excluding tax and shipping charges) |
| OrderShippingCharge | Opt | Calculated (Total order shipping charge amounts) |
| OrderTax | Opt | Calculated (Total order tax charge amounts) |
| OrderTotalAmount | Req | ORDER_HEADER.GRAND_TOTAL |
| Currency | Req | ORDER_HEADER.CURRENCY_UOM |
| Customer | Req | |
| CustomerId | Req | PARTY.PARTY_ID (ORDER_ROLE.PLACING_CUSTOMER) |
| FirstName | Opt | PERSON.FIRST_NAME (ORDER_ROLE.PLACING_CUSTOMER) |
| LastName | Req | PERSON.FIRST_NAME ORDER_ROLE.PLACING_CUSTOMER |
| EmailAddress | Opt | CONTACT_MECH.INFO_STRING (ORDER_CONTACT_MECH.ORDER_EMAIL) |
| HomePhone | Opt | TELECOM_NUMBER.CONTACT_NUMBER ORDER_ROLE.PLACING_CUSTOMER CONTACT_MECH_PURPOSE_TYPE_ID=PRIMARY_PHONE |
| CellPhone | Opt | TELECOM_NUMBER.CONTACT_NUMBER ORDER_ROLE.PLACING_CUSTOMER CONTACT_MECH_PURPOSE_TYPE_ID=MOBILE_PHONE |
| WorkPhone | Opt | TELECOM_NUMBER.CONTACT_NUMBER ORDER_ROLE.PLACING_CUSTOMER CONTACT_MECH_PURPOSE_TYPE_ID=WORK_PHONE |
| BillingAddress | Opt | ORDER_CONTACT_MECH.BILLING_LOCATION |
| ToName | Opt | POSTAL_ADDRESS.TO_NAME |

| | | |
|----------------------|-----|--|
| Country | Req | POSTAL_ADDRESS.COUNTRY_GEO_ID |
| Address1 | Req | POSTAL_ADDRESS.ADDRESS_1 |
| Address2 | Opt | POSTAL_ADDRESS.ADDRESS_2 |
| Address3 | Opt | POSTAL_ADDRESS.ADDRESS_3 |
| CityTown | Opt | POSTAL_ADDRESS.CITY |
| StateProvince | Opt | POSTAL_ADDRESS.STATE_PROVINCE_GEO_ID |
| ZipPostCode | Req | POSTAL_ADDRESS.POSTAL_CODE |
| ShippingAddress | Opt | ORDER_CONTACT_MECH.SHIPPING_LOCATION |
| ToName | Opt | POSTAL_ADDRESS.TO_NAME |
| Country | Req | POSTAL_ADDRESS.COUNTRY_GEO_ID |
| Address1 | Req | POSTAL_ADDRESS.ADDRESS_1 |
| Address2 | Opt | POSTAL_ADDRESS.ADDRESS_2 |
| Address3 | Opt | POSTAL_ADDRESS.ADDRESS_3 |
| CityTown | Opt | POSTAL_ADDRESS.CITY |
| StateProvince | Opt | POSTAL_ADDRESS.STATE_PROVINCE_GEO_ID |
| ZipPostCode | Req | POSTAL_ADDRESS.POSTAL_CODE |
| OrderShipment | Opt | |
| Shipment | Opt | ORDER_ITEM_SHIP_GROUP |
| ShipGroupSequenceId | Req | ORDER_ITEM_SHIP_GROUP.SHIP_GROUP_SEQ_ID |
| ShippingAddress | Opt | ORDER_ITEM_SHIP_GROUP.CONTACT_MECH_ID |
| ToName | Opt | POSTAL_ADDRESS.TO_NAME |
| Country | Req | POSTAL_ADDRESS.COUNTRY_GEO_ID |
| Address1 | Req | POSTAL_ADDRESS.ADDRESS_1 |
| Address2 | Opt | POSTAL_ADDRESS.ADDRESS_2 |
| Address3 | Opt | POSTAL_ADDRESS.ADDRESS_3 |
| CityTown | Opt | POSTAL_ADDRESS.CITY |
| StateProvince | Opt | POSTAL_ADDRESS.STATE_PROVINCE_GEO_ID |
| ZipPostCode | Req | POSTAL_ADDRESS.POSTAL_CODE |
| Carrier | Req | ORDER_ITEM_SHIP_GROUP.CARRIER_PARTY_ID |
| ShippingMethod | Req | ORDER_ITEM_SHIP_GROUP.SHIPMENT_METHOD_TYPE_ID |
| TrackingNumber | Opt | ORDER_ITEM_SHIP_GROUP.TRACKING_NUMBER |
| ShippingInstructions | Opt | ORDER_ITEM_SHIP_GROUP.SHIPPING_INSTRUCTIONS |
| ShipGroupLineItem | Req | |
| ProductId | Opt | ORDER_ITEM_SHIP_GROUP_ASSOC.PRODUCT_ID |
| SequenceId | Opt | ORDER_ITEM_SHIP_GROUP_ASSOC.ORDER_ITEM_SEQ_ID |
| Quantity | Opt | ORDER_ITEM_SHIP_GROUP_ASSOC.QUANTITY |
| OrderLineAttribute | Opt | Primarily for Gift Message |
| Attribute | Opt | ORDER_ITEM_ATTRIBUTE |
| Name | Req | ORDER_ITEM_ATTRIBUTE.ATTR_NAME |
| Value | Req | ORDER_ITEM_ATTRIBUTE.ATTR_VALUE |
| OrderLineItems | Req | |
| OrderLine | Req | |
| StatusId | Req | ORDER_ITEM.STATUS_ID |
| ProductId | Opt | ORDER_ITEM.PRODUCT_ID |
| SequenceId | Opt | ORDER_ITEM.ORDER_ITEM_SEQ_ID |
| Quantity | Opt | ORDER_ITEM.QUANTITY |
| Price | Opt | ORDER_ITEM.UNIT_PRICE |
| ListPrice | Opt | ORDER_ITEM.UNIT_LIST_PRICE |
| OfferPrice | Opt | Calculated (UNIT_PRICE - (ITEM_ADJUSTMENTS / QUANTITY)) |
| IsPromo | Opt | ORDER_ITEM.IS_PROMO |
| IsModifiedPrice | Opt | ORDER_ITEM.IS_MODIFIED_PRICE |
| LineTotalAmount | Opt | Calculated (QUANTITY * UNIT_PRICE) |
| OrderLineSalesTax | | ORDER_ADJUSTMENT.ORDER_ADJUSTMENT_TYPE_ID=SALES_TAX ORDER_ADJUSTMENT.ORDER_ITEM_SEQ_ID = ORDER_ITEM_SEQ_ID |

| | | |
|-------------------------|-----|---|
| ShipGroupSequenceId | Opt | ORDER_ADJUSTMENT.SHIP_GROUP_SEQ_ID |
| TaxPercent | Opt | ORDER_ADJUSTMENT.SOURCE_PERCENTAGE |
| TaxAuthorityGeo | Opt | ORDER_ADJUSTMENT.TAX_AUTH_GEO_ID |
| TaxAuthorityParty | Opt | ORDER_ADJUSTMENT.TAX_AUTH_PARTY_ID |
| SalesTax | Opt | ORDER_ADJUSTMENT.AMOUNT 3 decimal places |
| OrderLineShippingCharge | | ORDER_ADJUSTMENT.ORDER_ADJUSTMENT_TYPE_ID=SHIPPING_CHARGES ORDER_ADJUSTMENT.ORDER_ITEM_SEQ_ID = ORDER_ITEM_SEQ_ID |
| ShipGroupSequenceId | Opt | ORDER_ADJUSTMENT.SHIP_GROUP_SEQ_ID |
| ShippingCharge | Opt | ORDER_ADJUSTMENT.AMOUNT 3 decimal places |
| OrderLinePromotion | | ORDER_ADJUSTMENT_TYPE_ID = PROMOTION_ADJUSTMENT ORDER_ADJUSTMENT_ORDER_ITEM_SEQ_ID = ORDER_ITEM_SEQ_ID |
| ShipGroupSequenceId | Opt | ORDER_ADJUSTMENT.SHIP_GROUP_SEQ_ID |
| PromotionCode | Opt | ORDER_ADJUSTMENT.PRODUCT_PROMO_CODE_ID |
| PromotionAmount | Opt | ORDER_ADJUSTMENT.AMOUNT 3 decimal places |
| OrderLineAttribute | Opt | |
| Attribute | Opt | ORDER_ITEM_ATTRIBUTE |
| Name | Req | ORDER_ITEM_ATTRIBUTE.ATTR_NAME |
| Value | Req | ORDER_ITEM_ATTRIBUTE.ATTR_VALUE |
| | | |
| OrderPayment | Opt | |
| Payment | Opt | ORDER_PAYMENT_PREFERENCE |
| PaymentMethodId | Req | ORDER_PAYMENT_PREFERENCE.PAYMENT_METHOD_ID |
| PaymentMethod | Req | ORDER_PAYMENT_PREFERENCE.PAYMENT_METHOD_TYPE_ID |
| StatusId | Req | ORDER_PAYMENT_PREFERENCE.STATUS_ID |
| Amount | Req | ORDER_PAYMENT_PREFERENCE.MAX_AMOUNT |
| CardType | Opt | CREDIT_CARD.CARD_TYPE |
| CardNumber | Opt | CREDIT_CARD.CARD_NUMBER |
| ExpiryDate | Opt | CREDIT_CARD.EXPIRE_DATE |
| SagePayPaymentToken | Opt | SAGE_PAY_TOKEN_PAYMENT_METHOD.SAGE_PAY_TOKEN |
| PayPalPaymentToken | Opt | PAY_PAL_PAYMENT_METHOD.EXPRESS_CHECKOUT_TOKEN |
| PayPalPayerId | Opt | PAY_PAL_PAYMENT_METHOD.PAYER_ID |
| PayPalPayerStatus | Opt | PAY_PAL_PAYMENT_METHOD.PAYER_STATUS |
| PayPalTransactionId | Opt | PAY_PAL_PAYMENT_METHOD.TRANSACTION_ID |
| EbsTransactionId | Opt | EBS_PAYMENT_METHOD.TRANSACTION_ID |
| EbsPaymentId | Opt | EBS_PAYMENT_METHOD.PAYMENT_ID |
| MerchantReferenceNumber | Opt | EBS_PAYMENT_METHOD.MERCHANT_REFERENCE_NUM |
| MerchantTransactionId | Opt | PAYNETZ_PAYMENT_METHOD.MERCHANT_TRANSACTION_ID |
| | | |
| PaymentGatewayResponse | Opt | |
| GatewayResponse | Opt | |
| TransCodeEnumId | Opt | PAYMENT_GATEWAY_RESPONSE.TRANS_CODE_ENUM_ID Values PGT_AUTHORIZE or PGT_CAPTURE |
| Amount | Opt | PAYMENT_GATEWAY_RESPONSE.AMOUNT |
| ReferenceNumber | Opt | PAYMENT_GATEWAY_RESPONSE.REFERENCE_NUM |
| AltReferenceNumber | Opt | PAYMENT_GATEWAY_RESPONSE.ALT_REFERENCE |
| TransactionDate | Opt | PAYMENT_GATEWAY_RESPONSE.TRANSACTION_DATE |
| GatewayCode | Opt | PAYMENT_GATEWAY_RESPONSE.GATEWAY_CODE |
| GatewayFlag | Opt | PAYMENT_GATEWAY_RESPONSE.GATEWAY_FLAG |
| GatewayMessage | Opt | PAYMENT_GATEWAY_RESPONSE.GATEWAY_MESSAGE |
| | | |
| OrderAdjustment | | |
| Adjustment | | ORDER_ADJUSTMENT |
| ShipGroupSequenceId | Opt | ORDER_ADJUSTMENT.SHIP_GROUP_SEQ_ID |

| | | |
|-------------------|-----|--|
| AdjustmentType | Req | ORDER_ADJUSTMENT.ORDER_ADJUSTMENT_TYPE_ID ORDER_ADJUSTMENT.ORDER_ITEM_SEQ_ID=_NA_ |
| Amount | Req | ORDER_ADJUSTMENT.AMOUNT |
| Description | Opt | ORDER_ADJUSTMENT.DESCRPTION |
| PromotionCode | Opt | ORDER_ADJUSTMENT.PRODUCT_PROMO_CODE_ID |
| AdjustMethod | Opt | ORDER_ADJUSTMENT_ATTRIBUTE.ADJUST_METHOD |
| AdjustPoints | Opt | ORDER_ADJUSTMENT_ATTRIBUTE.ADJUST_POINTS |
| AdjustConversion | Opt | ORDER_ADJUSTMENT_ATTRIBUTE.CONVERSION_FACTOR |
| AdjustMemberId | Opt | ORDER_ADJUSTMENT_ATTRIBUTE.MEMBER_ID |
| AdjustExpiryDate | Opt | ORDER_ADJUSTMENT_ATTRIBUTE.EXP_DATE |
| TaxPercent | Opt | ORDER_ADJUSTMENT.SOURCE_PERCENTAGE |
| TaxAuthorityGeo | Opt | ORDER_ADJUSTMENT.TAX_AUTH_GEO_ID |
| TaxAuthorityParty | Opt | ORDER_ADJUSTMENT.TAX_AUTH_PARTY_ID |
| | | |
| OrderAttribute | Opt | |
| Attribute | Req | ORDER_ATTRIBUTE |
| Name | Req | ORDER_ATTRIBUTE.ATTR_NAME |
| Value | Req | ORDER_ATTRIBUTE.ATTR_VALUE |

12.3 Feed Notes

■ Masking Considerations

- If FEEDS_MASK_ACCOUNT_INFO is TRUE)
- Apply to:

<Payment>

<PaymentMethod>if CREDIT_CARD

<CardNumber>MASK

■ Adjustment Types

- ORDER_ADJUSTMENT_TYPE.ORDER_ADJUSTMENT_TYPE_ID
 - ADDITIONAL_FEATURE
 - DISCOUNT_ADJUSTMENT
 - DONATION_ADJUSTMENT
 - FEE
 - LOYALTY_POINTS
 - MISCELLANEOUS_CHARGE
 - MKTG_PKG_AUTO_ADJUST
 - PROMOTION_ADJUSTMENT
 - SALES_TAX
 - SHIPPING_CHARGES
 - SURCHARGE_ADJUSTMENT
 - WARRANTY_ADJUSTMENT

■ Payment Methods

- PAYMENTS.PAYMENT_METHOD
 - CREDIT_CARD
 - EXT_PAYPAL
 - GIFT_CARD
 - EXT_COD
 - EXT_EBS
 - SAGEPAY_TOKEN

- EXT_PAYNETZ
- Status
 - ORDER_HEADER.STATUS_ID
 - ORDER_APPROVED
 - ORDER_COMPLETED
 - ORDER_CANCELLED
 - ORDER_REJECTED

12.4 Feed Notes

■ Basic Structure

```

<Order>

  <OrderHeader>
    Basic information about the Order
  </OrderHeader>

  <Customer>
    Contains customer details etc.

    <BillingAddress>
      Billing Address Details
    </BillingAddress>

    <ShippingAddress>
      Billing Address Details
    </ShippingAddress>

  </Customer>

  <OrderShipment>

    One of more Shipments. Each Shipment will have one of more items. Order
    Shipment has the Carrier information. For "approved" orders being passed back
    to the client ERP system there will only be one OrderShipment reflecting the
    choices made by the Customer. If the BF-Admin-Module is used for Shipping /
    Complete status changes then multiple OrderShipment structures could be
    present.

  </OrderShipment>

  <OrderLineItems>
    <OrderLine>
      Specific cart line item details
    </OrderLine>
  </OrderLineItems>

  <OrderPayment>
    One or more payments with one or more PaymentGatewayResponse structures
  </OrderPayment>

  <OrderAdjustment>
    One or more adjustments
  </OrderAdjustment>

```

```

    <OrderAttribute>
      One or more attributes
    </OrderAttribute>

  </Order>

```

12.5 Feed Example

```
<BigFishOrderFeed Count="1">
```

```
<Order>
```

```

  <OrderHeader>
    <ProductStoreId>RNY_STORE</ProductStoreId>
    <OrderId>WS10910</OrderId>
    <OrderDate>2013-05-24 11:25:34.0</OrderDate>
    <EntryDate>2013-05-24 11:25:34.0</EntryDate>
    <StatusId>ORDER_COMPLETED</StatusId>
    <CreatedBy>pagrawal@gmail.com</CreatedBy>
    <OrderTotalItem>454.13</OrderTotalItem>
    <OrderTotalAdjustment>-35.00</OrderTotalAdjustment>
    <OrderShippingCharge>69.99</OrderShippingCharge>
    <OrderTax>34.16</OrderTax>
    <OrderTotalAmount>523.28</OrderTotalAmount>
    <Currency>USD</Currency>

```

```
</OrderHeader>
```

```
<Customer>
```

```

  <CustomerId>7324126</CustomerId>

  <FirstName>Sharon</FirstName>
  <LastName>Bean</LastName>
  <EmailAddress>slwozny@aol.com</Email>

  <HomePhone>222-999-8888</HomePhone>
  <CellPhone>333-444-8181</CellPhone>
  <WorkPhone>444-555-9191</WorkPhone>

  <BillingAddress>
    <ToName>Sharon Bean</ToName>
    <Country>USA</Country>
    <Address1>16622 Evening Star Drive</Address1>
    <Address2></Address2>
    <Address3></Address3>
    <CityTown>Round Hill</CityTown>
    <StateProvince>VA</StateProvince>
    <ZipPostCode>20141</ZipPostCode>
  </BillingAddress>

  <ShippingAddress>
    <ToName>Larry Bean</ToName>
    <Country>USA</Country>
    <Address1>16622 Evening Star Drive</Address1>
    <Address2></Address2>
    <Address3></Address3>
    <CityTown>Round Hill</CityTown>
    <StateProvince>VA</StateProvince>
    <ZipPostCode>20141</ZipPostCode>

```

```

        </ShippingAddress>

</Customer>

// ORDER SHIPMENTS
<OrderShipment>

    <Shipment>
        <ShipGroupSequenceId>00001</ShipGroupSequenceId>

        <ShippingAddress>
            <ToName>Larry Bean</ToName>
            <Country>USA</Country>
            <Address1>16622 Evening Star Drive</Address1>
            <Address2></Address2>
            <Address3>Nr </Address3>
            <CityTown>Round Hill</CityTown>
            <StateProvince>VA</StateProvince>
            <ZipPostCode>20141</ZipPostCode>
        </ShippingAddress>

        <Carrier>UPS</Carrier>
        <ShippingMethod>GROUND</ShippingMethod>
        <TrackingNumber>UPS-98765</TrackingNumber>
        <ShippingInstructions>Beware of dog!!</ShippingInstructions>

        <ShipGroupLineItem>
            <ProductId>1000987-BXL</ProductId>
            <SequenceId>00001</SequenceId>
            <Quantity>1</Quantity>

            // Gift Message
            <OrderLineAttribute>

                <Attribute>
                    <Name>GIFT_MSG_FROM_01</Name>
                    <Value>Your Husband</Value>
                </Attribute>

                <Attribute>
                    <Name>GIFT_MSG_TO_01</Name>
                    <Value>My Wife</Value>
                </Attribute>

                <Attribute>
                    <Name>GIFT_MSG_TEXT_01</Name>
                    <Value>Happy Birthday</Value>
                </Attribute>

                <Attribute>
                    Repeat for all available attributes
                </Attribute>

            </OrderLineAttribute>

        </ShipGroupLineItem>

    </Shipment>

</OrderShipment>

// ORDER LINE ITEMS
<OrderLineItems>

```

```

<OrderLine>

    <StatusId>ITEM_COMPLETED</StatusId>
    <ProductId>1000987-BXL</ProductId>
    <SequenceId>0001</SequenceId>
    <Quantity>1</Quantity>
    <Price>454.13</Price>
    <ListPrice>454.13</ListPrice>
    <IsPromo>N</IsPromo>
    <IsModifiedPrice>N</IsModifiedPrice>
    <OfferPrice></OfferPrice>
    <LineTotalAmount>169.99</LineTotalAmount>

    <OrderLineSalesTax>
        <ShipGroupSequenceId>000001</ShipGroupSequenceId>
        <TaxPercent>6</TaxPercent>
        <TaxAuthorityGeo>NY-State</TaxAuthorityGeo>
        <TaxAuthorityParty>NY_DTF</TaxAuthorityParty>
        <SalesTax>13.58</SalesTax>
    </OrderLineSalesTax>

    <OrderLineShippingCharge>
        <ShipGroupSequenceId>000001</ShipGroupSequenceId>
        <ShippingCharge>34.00</ShippingCharge>
    </OrderLineShippingCharge>

    <OrderLinePromotion>
        <ShipGroupSequenceId>000001</ShipGroupSequenceId>
        <PromotionCode>10OFFITEM</PromotionCode>
        <PromotionAmount>-70.50</PromotionAmount>
    </OrderLinePromotion>

</OrderLine>

<Orderline>
    Repeat for all order lines
</OrderLine>

</OrderLineItems>

// ORDER PAYMENTS
<OrderPayment>

// CREDIT CARD
    <Payment>
        <PaymentMethodId>123456</PaymentMethodId>
        <PaymentMethod>CREDIT_CARD</PaymentMethod>
        <StatusId>PAYMENT_SETTLED</StatusId>
        <CardType>MASTERCARD</CardType>
        <CardNumber>4444444444444441</CardNumber>
        <ExpiryDate>11/30/2013 00:00:00</ExpiryDate>
        <Amount>523.28</Amount>

        <PaymentGatewayResponse>
            <GatewayResponse>
                <TransCodeEnumId>PGT_AUTHORIZE</TransCodeEnumId>
                <Amount>523.28</Amount>
                <ReferenceNumber>3370034925550176056426</ReferenceNumber>
                <AltReferenceNumber>123456</ AltReferenceNumber>
                <TransactionDate>06/06/2012 14:30:24</TransactionDate>
            </GatewayResponse>
        </PaymentGatewayResponse>
    </Payment>

```

```

        <GatewayCode>100</GatewayCode>
        <GatewayFlag>A</GatewayFlag>
        <GatewayMessage>This is a test.</GatewayMessage>
    </GatewayResponse>
    <GatewayResponse>
        <TransCodeEnumId>PGT_CAPTURE</TransCodeEnumId>
        <Amount>523.28</Amount>
        <ReferenceNumber>3370034925550176056429</ReferenceNumber>
        <AltReferenceNumber>123456</AltReferenceNumber>
        <TransactionDate>06/06/2012 14:30:25</TransactionDate>
        <GatewayCode>200</GatewayCode>
        <GatewayFlag>C</GatewayFlag>
        <GatewayMessage>This is a test capture</GatewayMessage>
    </GatewayResponse>
</PaymentGatewayResponse>

</Payment>

// SAGEPAY WITH TOKEN
<Payment>
    <PaymentMethodId>123456</PaymentMethodId>
    <PaymentMethod>CREDIT_CARD</PaymentMethod>
    <StatusId>PAYMENT_SETTLED</StatusId>
    <CardType>MASTERCARD</CardType>
    <SagePayPaymentToken>{0B59D76-1BC7-C88-DF7723666}</SagePayPaymentToken>
    <Amount>523.28</Amount>

    <PaymentGatewayResponse>
        See example for CREDIT CARD payment above
    </PaymentGatewayResponse>

</Payment>

// GIFT CARD
<Payment>
    <PaymentMethodId>123456</PaymentMethodId>
    <PaymentMethod>GIFT_CARD</PaymentMethod>
    <StatusId>PAYMENT_SETTLED</StatusId>
    <CardType>TENDERCARD</CardType>
    <CardNumber>1234567890</CardNumber>
    <ExpiryDate>11/30/2012 00:00:00</ExpiryDate>
    <Amount>523.28</Amount>

    <PaymentGatewayResponse>
        See example for CREDIT CARD payment above
    </PaymentGatewayResponse>

</Payment>

// PAYPAL
<Payment>
    <PaymentMethodId>123456</PaymentMethodId>
    <PaymentMethod>EXT_PAYPAL</PaymentMethod>
    <StatusId>PAYMENT_SETTLED</StatusId>
    <PayPalPayerId>UE7TSNN888AZH73</PayPalPayerId>
    <PayPalPaymentToken>EC-5T44894446767U734646499G</PayPalPaymentToken>
    <PayPalTransactionId>123456</PayPalTransactionId>
    <Amount>523.28</Amount>

    <PaymentGatewayResponse>

```

```

        See example for CREDIT CARD payment above
    </PaymentGatewayResponse>

</Payment>

// EBS
<Payment>
    <PaymentMethodId>123456</PaymentMethodId>
    <PaymentMethod>EXT_EBS</PaymentMethod>
    <StatusId>PAYMENT_SETTLED</StatusId>
    <Amount>523.28</Amount>
    <MerchantReferenceNumber>1361315139389</MerchantReferenceNumber>
    <EbsTransactionId>123456</EbsTransactionId>
    <EbsPaymentId>956743</EbsPaymentId>

    <PaymentGatewayResponse>
        See example for CREDIT CARD payment above
    </PaymentGatewayResponse>

</Payment>

// PAYNETZ
<Payment>
    <PaymentMethodId>123456</PaymentMethodId>
    <PaymentMethod>EXT_PAYNETZ</PaymentMethod>
    <StatusId>PAYMENT_SETTLED</StatusId>
    <Amount>523.28</Amount>
    <MerchantTransactionId>1361315139389</MerchantTransactionId >

    <PaymentGatewayResponse>
        See example for CREDIT CARD payment above
    </PaymentGatewayResponse>

</Payment>

// COD (CASH ON DELIVERY)
<Payment>
    <PaymentMethodId>123456</PaymentMethodId>
    <PaymentMethod>EXT_COD</PaymentMethod>
    <StatusId>PAYMENT_NOT_RECEIVED</StatusId>
    <Amount>523.28</Amount>
</Payment>

</OrderPayment>

// ORDER ADJUSTMENTS
<OrderAdjustment>

    <Adjustment>
        <ShipGroupSequenceId>00001</ShipGroupSequenceId>
        <AdjustmentType>SHIPPING_CHARGES</AdjustmentType>
        <Amount>69.99</Amount>
    </Adjustment>

    <Adjustment>
        <ShipGroupSequenceId>00001</ShipGroupSequenceId>
        <AdjustmentType>SALES_TAX</AdjustmentType>
        <Amount>6.456</Amount>
        <TaxPercent>6</TaxPercent>
        <TaxAuthorityGeo>NY-State</TaxAuthorityGeo>

```

```

        <TaxAuthorityParty>NY_DTF</TaxAuthorityParty>
    </Adjustment>

    <Adjustment>
        <ShipGroupSequenceId>00001</ShipGroupSequenceId>
        <AdjustmentType>LOYALTY_POINTS</AdjustmentType>
        <Amount>-10.00</Amount>
        <AdjustMethod>TENTEST</AdjustMethod>
        <AdjustPoints>10</AdjustPoints>
        <AdjustConversion>1</AdjustConversion>
        <AdjustMemberId>213131</AdjustMemberId>
    </Adjustment>

    <Adjustment>
        <ShipGroupSequenceId>00001</ShipGroupSequenceId>
        <AdjustmentType>PROMOTION_ADJUSTMENT</AdjustmentType>
        <PromotionCode>10OFFORDER</PromotionCode>
        <Amount>-10.00</Amount>
    </Adjustment>

</OrderAdjustment>

// ORDER ATTRIBUTES
<OrderAttribute>
    <Attribute>
        <Name>AFFILIATE_TRACKING</Name>
        <Value>ACME</Value>
    </Attribute>

    <Attribute>
        Repeat for all Attributes
    </Attribute>
</OrderAttribute>

</Order>

</BigFishOrderFeed>

```

12.6 Logging

■ In Progress logging:

- The OrderId is used for all In-Progress and Row-Complete logging

```
IN PROGRESS: [Processing row #3 Order ID: WS00123]
```

■ Final logging:

- Count the number of Orders that were in the initial extract
- Count the number of <Order> entries that were successfully processed

13 BigFish Contact Us Events

13.1 Overview

- Type of Feed: BigFish to Client
- Description: A file of all "contact us" requests made via the eCommerce site.

13.2 Feed details

| Attribute | | Description |
|----------------------|-----|------------------------------------|
| BigFishContactUsFeed | | |
| Count | Opt | The number of <ContactUs> records |
| ContactUs | Req | |
| ProductStoreId | Req | Used to identify the Product Store |
| ProductStoreName | Opt | Product Store Name |
| ContactUsId | Req | Unique Customer Request ID |
| FirstName | Opt | Customer Request FIRST NAME |
| LastName | Opt | Customer Request LAST NAME |
| EmailAddress | Opt | Customer Request EMAIL_ADDRESS |
| ContactPhone | Opt | Customer Request PHONE |
| OrderId | Opt | Customer Request ORDER_ID |
| Comment | Opt | Customer Request COMMENT |

13.3 Feed Example

```
<BigFishContactUsFeed Count="1">

  <ContactUs>
    <ProductStoreId>FH</ProductStoreId>
    <ProductStoreName>Fashion House</ProductStoreName>
    <ContactUsId>1000878</ContactUsId>
    <FirstName>Bruce</FirstName>
    <LastName>Lee</LastName>
    <EmailAddress>blee@kungfu.com</EmailAddress>
    <ContactPhone>1-555-888-1212</ContactPhone>
    <OrderId>100088</OrderId>
    <Comment>Where is my produc?</Comment>
  </ContactUs>

</BigFishContactUsFeed>
```

13.4 Logging

- In Progress logging:
 - The ContactUsId is used for all In-Progress and Row-Complete logging

```
IN PROGRESS: [Processing row #3 Contact Us ID: 700098]
```


- Final logging:
 - Count the number of ContactUs entries that were in the initial extract
 - Count the number of <ContactUs> entries that were successfully processed

14 BigFish Request Catalog Events

14.1 Overview

- Type of Feed: BigFish to Client
- Description: A file of all "request catalog" requests made via the eCommerce site.

14.2 Feed details

| Attribute | | Description |
|---------------------------|-----|--|
| BigFishRequestCatalogFeed | | |
| Count | Opt | The number of <RequestCatalog> records |
| RequestCatalog | Req | |
| ProductStoreId | Req | Used to identify the Product Store |
| ProductStoreName | Opt | Product Store Name |
| RequestCatalogId | Req | Unique Customer Request ID |
| FirstName | Opt | Customer Request FIRST NAME |
| LastName | Opt | Customer Request LAST NAME |
| Country | Opt | Customer Request COUNTRY |
| Address1 | Opt | Customer Request ADDRESS1 |
| Address2 | Opt | Customer Request ADDRESS2 |
| Address3 | Opt | Customer Request ADDRESS3 |
| CityTown | Opt | Customer Request CITY or TOWN |
| StateProvince | Opt | Customer Request STATE or PROVINCE |
| ZipPostalCode | | Customer Request POSTAL CODE |
| EmailAddress | Opt | Customer Request EMAIL_ADDRESS |
| ContactPhone | Opt | Customer Request PHONE |
| Comment | Opt | Customer Request COMMENT |

14.3 Feed Example

```
<BigFishRequestCatalogFeed Count="1">
  <RequestCatalog>
    <ProductStoreId>FH</ProductStoreId>
    <ProductStoreName>Fashion House</ProductStoreName>
    <RequestCatalogId>1000878</RequestCatalogId>
    <FirstName>Bruce</FirstName>
    <LastName>Lee</LastName>
    <Country>USA</Country>
    <Address1>16622 Evening Star Drive</Address1>
    <Address2></Address2>
    <Address3></Address3>
    <CityTown>Round Hill</CityTown>
    <StateProvince>VA</StateProvince>
    <ZipPostalCode>20141</ZipPostalCode>
    <EmailAddress>blee@kungfu.com</EmailAddress>
    <ContactPhone>1-555-888-1212</ContactPhone>
    <Comment>Send me a catalog</Comment>
  </RequestCatalog>
</BigFishRequestCatalogFeed>
```

14.4 **Logging**

- In Progress logging:

- The RequestCatalogId is used for all In-Progress and Row-Complete logging

IN PROGRESS: [Processing row #3 Request Catalog ID: 700098]

- Final logging:

- Count the number of RequestCatalog entries that were in the initial extract
- Count the number of <RequestCatalog> entries that were successfully processed

15 BigFish Google Product Feed

15.1 Overview

- Type of Feed: BigFish to Client
- Description: A feed used to provide Google with product information

15.2 Other Resources

- <https://support.google.com/merchants/answer/188494?hl=en#US>
- https://support.google.com/merchants/answer/1344057?hl=en&ref_topic=3404778

15.3 Feed details

| Attribute | | Description |
|-------------------------|-----|---|
| title | Req | META.TITLE |
| link | Req | HOME PAGE URL |
| description | Req | META.DESCRPTION |
| item | Req | |
| title | Req | PRODUCT_CONTENT.PRODUCT_NAME |
| link | Req | PRODUCT.SEO_URL |
| description | Req | PRODUCT_CONTENT.LONG_DESCRIPTION |
| id | Req | PRODUCT.PRODUCT_ID |
| price | Req | PRODUCT_PRICE.DEFAULT_PRICE |
| image_link | Opt | PRODUCT_CONTENT_LARGE_IMAGE_URL |
| google_product_category | Opt | PRODUCT_CATEGORY_MEMBER, see notes |
| product_type | Opt | PRODUCT_CATEGORY_MEMBER, see notes |
| shipping | Opt | |
| price | Opt | Sys parm: CHECKOUT_CART_DEFAULT_SHIP_METHOD.PRICE |
| tin | Opt | GOOD_IDENTIFICATION.ID_VALUE (ISBN) |
| mpn | Opt | GOOD_IDENTIFICATION.ID_VALUE (MANUFACTURER_ID_NO) |
| product_review_count | Opt | count (PRODUCT_REVIEW) Status= PRR_APPROVED |
| product_review_average | Opt | PRODUCT_CALCULATED_INFO.AVERAGE_CUSTOMER_RATING |

15.4 Feed Example

```
<?xml version="1.0"?>
  <rss xmlns:g="http://base.google.com/ns/1.0" version="2.0">

    <channel>
      <title>Purity Products</title>
      <link>http://purityProducts.com</link>
      <description>Purity Products | Nutritional Supplements, Omega 3
Fish Oils, Vitamin D, Multivitamins, Hyaluronic Acid (HA
Formulas)</description>

      <item>
        <title>Aloe Master Capsules</title>
```

```

<link>
    http://www.purityproducts.com/purityEcommerce/control/
    productDetail?productId=aloe-master-capsules
</link>

<description>
    Aloe Master is concentrated and cold-processed to
    provide mucopolysaccharides, an important active
    ingredient in Aloe Vera.
</description>

<g:id>9</g:id>

<g:price>29.95 USD</g:price>

<g:image_link>
    http://www.purityproducts.com/purityEcommerce/images/p
    roduct/large/9.jpg
</g:image_link>

<g:google_product_category>
    Health & Beauty > Health Care > Fitness
    & Nutrition > Vitamins & Supplements
</g:google_product_category>

<g:product_type>
    Health & Beauty > Health Care > Fitness
    & Nutrition > Vitamins & Supplements,
    Health & Beauty > Health Care > Clearance
</g:product_type>

<g:shipping>
    <g:price>6.95 USD</g:price>
</g:shipping>

<g:tin>184392000692</g:gtin>
<g:mpn>0979058805</g:mpn>
<g:product_review_count>2</g:product_review_count>
<g:product_review_average>5</g:product_review_average>

</item>

</channel>
</rss>

```

15.5 Processing Notes

- Processing should be initiated by reading the PRODUCT entity
 - Products should only be considered:
 - if "buyable" (intro / disc date check)
 - if FINISHED-GOOD or VIRTUAL
 - For each product all memberships to Categories should be considered

- Categories should only be included if active (from/thru date check)

■ PRODUCT_CATEGORY_MEMBER

- The attribute "google_product_category" identifies the PRIMARY category structure
- The attribute "product_type" identifies ALL category structures
- In the feed example above the product "aloe-master-capsules" is found within 2 category structures:

Health & Beauty -> Health Care -> Fitness -> Nutrition -> Vitamins & Supplements
 Health & Beauty -> Health Care -> Clearance

- The "main" (or first) category is used to populate the "google_product_category" as follows:

Health & Beauty > Health Care > Fitness & Nutrition > Vitamins & Supplements

- All categories are used to populate the "product_type" attribute as follows:

Health & Beauty > Health Care > Fitness & Nutrition > Vitamins & Supplements,
 Health & Beauty > Health Care > Clearance

■ **TODO LATER PHASE:** consider "Variants"

15.6 Logging

■ In Progress logging:

- The ProductId is used for all In-Progress and Row-Complete logging

IN PROGRESS: [Processing row #3 Product ID: 10000121]

■ Final logging:

- Count the number of ProductId entries that were in the initial extract
- Count the number of <Item> entries that were successfully processed

16 BigFish BlueDart Feeds

16.1 Overview

- Type of Feed:
 - Client to BigFish
- Format:
 - XLS
- Description:
 - This accommodates two simple feeds that use information from an XLS file and map directly to new OFBiz entities
 - For both the PRE-PAID and COD versions of the XLS file
 - For more information on the Client to BigFish:
 - A feed that could be used to load initial Blue Dart PRE-PAID data.
 - Typically run once for initial setup, but could be scheduled to synchronize data for updates.

16.2 Processing Notes

- Simple mapping of an XLS file into new Blue Dart entities
- PRE PAID
 - See example file in VSS / Clients / BigFish / Docs / BlueDart
 - File: BlueDart PREPAID 2013-04-05.xls
 - See entity definition in spec "BF Blue Dart Integration.doc"
- COD
 - See example file in VSS / Clients / BigFish / Docs / BlueDart
 - File: BlueDart COD 2013-04-05.xls
 - See entity definition in spec "BF Blue Dart Integration.doc"

16.3 Validation

- PINCODE
 - The PINCODE [PIN_CODE_ID_DATA] must be unique

17 Feeds: Scheduled Jobs

17.1 Other Resources

- See spec "*BF Admin Module Services and Scheduled Jobs.doc*" for more information

17.2 Incoming Feeds: Client to BigFish

- Scheduled Job:
 - A scheduled job for each of the Incoming Feed Files will be created
- Look for incoming file:
 - Specific jobs will look for files based on the system parameter FEEDS_IN_XXX_URL_DIR, where "xxx" is a specific incoming feed directory:
 - FEEDS_IN_PRODUCT_URL_DIR
 - FEEDS_IN_ORDER_STATUS_URL_DIR
 - FEEDS_IN_RATING_URL_DIR
 - FEEDS_IN_STORE_URL_DIR
 - Any XML files located in the specified directory will be processed
 - Example:
 - FEEDS_IN_PRODUCT_URL_DIR = c:\feeds\incoming\product\

■ There is a file available:

c:\feeds\incoming\product\products.xml
 - The scheduled job responsible for updating the products will look for files using the following pattern:

c:\feeds\incoming\product*.xml
- Post Processing, if successful
 - In order to not process the file during a subsequent scheduled job, the file will be moved based on the system parameter FEEDS_IN_SUCCESS_SUB_DIR
 - This represents a relative sub-directory reference for the location of files AFTER processing has completed successfully
 - The parameter FEEDS_IN_SUCCESS_SUB_DIR is used to determine the final location of a successfully processed file. The contents will be automatically appended with a date/time suffix "_YYYYHHMM_HHMMSS" when creating the sub directory
 - Example:

- FEEDS_IN_PRODUCT_URL_DIR = c:\feeds\incoming\product\
- FEEDS_IN_SUCCESS_SUB_DIR = processed

- There is a file available:

c:\feeds\incoming\product\products.xml

- The scheduled job responsible for updating the products will look for files using the following pattern:

c:\feeds\incoming\product*.xml

- File is successfully processed and will be moved:

c:\feeds\incoming\product\processed_20120808_090000\products.xml

■ Post Processing, errors found

- If there are any errors found in processing the XML file then the file is moved to an error sub directory
- The relative sub-directory location is defined by the system parameter FEEDS_IN_ERROR_SUB_DIR
- Example:

- FEEDS_IN_PRODUCT_URL_DIR = c:\feeds\incoming\product\
- FEEDS_IN_ERROR_SUB_DIR = error

- There is a file available:

c:\feeds\incoming\product\products.xml

- The scheduled job responsible for updating the products will look for files using the following pattern:

c:\feeds\incoming\product*.xml

- Errors are found in processing, the file will be moved:

c:\feeds\incoming\product\error_20120808_090000\products.xml

17.3 Outgoing Feeds: BigFish to Client

- Scheduled Job:
 - A scheduled job for each of the Outgoing Feed Files will be created
- File creation:

- Specific jobs will target an output directory location based on the system parameter FEEDS_OUT_xxx_URL_DIR, where "xxx" is a specific outgoing feed type
 - FEEDS_OUT_CUSTOMER_URL_DIR
 - FEEDS_OUT_ORDER_URL_DIR
 - FEEDS_OUT_CONTACT_US_URL_DIR
 - FEEDS_OUT_REQUEST_CATALOG_URL_DIR
 - FEEDS_OUT_GOOGLE_PRODUCT_URL_DIR
- Addition system parameters FEEDS_OUT_xxx_PREFIX, where "xxx" is a specific outgoing feed type, are used to determine the file name
 - FEEDS_OUT_CUSTOMER_PREFIX
 - FEEDS_OUT_ORDER_PREFIX
 - FEEDS_OUT_CONTACT_US_PREFIX
 - FEEDS_OUT_REQUEST_CATALOG_PREFIX
 - FEEDS_OUT_GOOGLE_PRODUCT_PREFIX
- Date / Time file suffix
 - All outgoing files will have a date and time suffix "_YYYYMMDD_HHMMSS"
- Example:
 - FEEDS_OUT_CUSTOMER_URL_DIR = c:\feeds\outgoing\
 - FEEDS_OUT_CUSTOMER_PREFIX = new_customers
 - Date and Time of execution = 8th Aug 2012, at 9:03am
 - File is created:

c:\feeds\outgoing\new_customers_20120808_090300.xml

■ Post Processing

- It is the clients responsibility, or some future BF job, to poll for the file, process the records and rename so it is not processed again.

17.4 Database Transactions

- **DEV: how are we handling Transaction Processing?**
- **DEV: one big transaction, all or nothing with a single commit or rollback?**
- **DEV: or commit after each?**
- **DEV: our strategy has implications on disaster recovery and the ability to "re-run" a scheduled job**

17.5 Logging

- **DEV: I'm thinking that we should have a separate log for this? Log file would be created with the same path name as the file with a ".log" extension**

17.6 Email alerts

- See spec "*BF Admin Module Services and Scheduled Jobs.doc*" for details on email alerts

17.7 Cleanup

- NOTE: there are standard OFBiz services to clean-up file structures of processed data files
- To be discussed at a later date