HRWC eDelivery

Functional Specification - Enhancement
eDelivery Account Authentication Data File

Document Reference: **HRWC_ED02_Account Authentication Data File**
Version: **0.1**
Date Created: **31-AUG-2014**

Document Information

Business Area	
GAP/CR ID	
FS Definition ID/Object ID/WRICEF ID	
SAP Version	
Localization	

Approval and Distribution

Approved by	Name	Role	Signature	Date
Process Team Lead				
Development Team Lead				

Document History

Version	Author	Reason for change	Date
0.1	Adam McCann	Original	29-AUG-2014
1.0	Jai Korpal	Added technical details	29-AUG-2014
1.1	Aaron Walsh	Added technical details	29-AUG-2014
1.2			
1.3			

Table of Contents

1. General Information

Description	e-Delivery Account Authentication Data File
PDD	N/A
BPH Node	N/A
System	ECC
Project / Release	???

Priority	[X] High	*Interface is required for go-live*	
	[ ] Medium	*Either not needed day one or a workaround is possible*	
	[ ] Low	*Supports "nice to have" functionality*	
	[ ] Other	*Specify:*	

Complexity	[ ] Very High	*Refer to complexity estimator*	
	[ ] High	*Refer to complexity estimator*	
	[X] Medium	*Refer to complexity estimator*	
	[ ] Low	*Refer to complexity estimator*	
	[ ] Very Low	*Refer to complexity estimator*	
	[ ] Other	*Specify:*	

Enhancement Type (if known, select all that apply)	[X] Batch Program	*Independent batch program*	
	[ ] Online Program	*Requires an interactive report, custom transaction, web-dynpro, etc.*	
	[ ] Upload	*Data Upload from a PC, typically Excel or CSV*	
	[ ] User Exit	*SD/MM User Exit*	
	[ ] Enhancement	*SMOD/CMOD Project based enhancement*	
	[ ] BADI	*Business Add-In*	
	[ ] Enhancement Spot	*Enhancement Spot Framework*	
	[ ] Routine	*FI Validations/Substitutions, SD Copy Controls, etc.*	
	[ ] BTE / Open FI	*Business Transaction Event from Open FI*	
	[ ] Data Dictionary	*Requires Custom Data Dictionary Objects*	
	[ ] Other/Unknown	*Specify:*	

Usage Frequency and Mode	[ ] Hourly	*Details:*	
	[X] Daily	*Details:*	
	[ ] Weekly	*Details:*	
	[ ] Monthly	*Details:*	
	[ ] Quarterly	*Details:*	
	[ ] Yearly	*Details:*	
	[X] Other Period	*Details*	As required manually

Mode of Execution	☐ On-Line	*Details:*	
	X Background	*Details*	
Volume *(per single execution)*	Average Volume:	???	
	Peak Volume:	???	

2. Business Needs & Requirements

The current phase of the eDelivery project will allow the electronic delivery of billing documents (e.g: Utility Bills for HRWC).

In October 2013, the Canada Post epost service (www.epost.ca) was selected as the electronic mail delivery platform for the eDelivery project. Property Valuation Services Corporation (PVSC) act as technical integrator between mailer organisations (municipalities, utilities and PVSC) and epost.

The local client systems (WRP) will be integrated with the ePost platform using the eDelivery Data Aggregator interface. The Data Aggregator will act as an Interface hub between the client systems and ePost to exchange the required master data. Below is a diagram of the data flow.
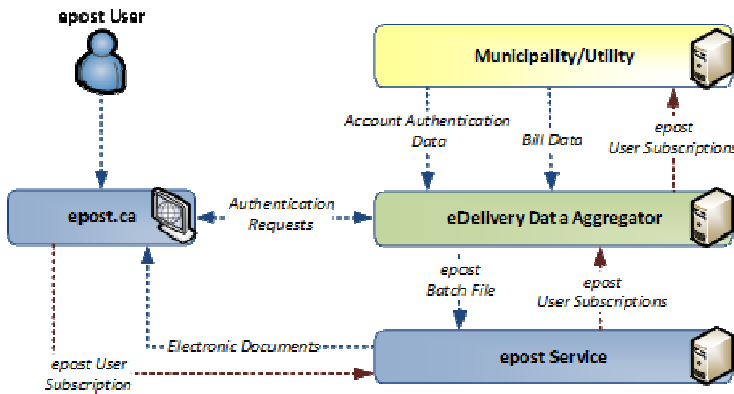
This specification document outlines the Account Authentication Data file. This file is to be created from the local client system, made up of required account information to provide the data aggregator the necessary information on the medium to bill the Accounts. This data will be used for epost services authentication information questions and security around signing up for the electronic billing service.

This data will be generated from SAP master data, run through a daily batch job and uploaded to the eDelivery Data aggregator.

For mapping of the required fields, see section 7 – Data Source Considerations.

This file will utilize the master data built in HRWC_ED01_Contract Account Enhancement and will used congruently with HRWC_ED03_Bill Data file.

3. Current Functionality

The required file extract does not currently exist.

At this time, the electronic billing option is not available.

4. Desired Functionality

The desired functionality of the eDelivery Project is to enable users to sign up for electronic delivery of billing, which is done through a registration through the epost service.

The epost service utilizes a data aggregator to perform three functions:
- Packages and formats uploaded mailer data for epost;
- Provides real-time authentication web service for epost.ca user signups;
- Provide mailers with data on epost User Subscriptions – lists of mailer customers that have signed up for electronic delivery via epost.

To achieve account authentication for web service, a document is required to provide the data aggregator and epost services the correct information for users to sign up for the service. The file will be utilized for response data for each eligible account.

A load of the full records will be uploaded weekly.

Accounts should not be restricted, and should include accounts from all countries.

5. Issues

There are no outstanding issues.

Issue #	Issue owner	Date Raised	Issue Description	Issue Resolution	Resolved By & Date

6. Technical Details

Please find the identified Technical Requirements from the epost Data Aggregator:

Account Authentication Data files must conform to the following requirements:

File Type	CSV	Empty field	"" or leave empty
Encoding	UTF-8	Text qualifier	"
Header row	Yes - required	Field separator	,
Filename	**AAD_[JurID]_[MailerID]_[PubID]_[SeqNo]_[YYYYMMDD].txt** • *[JurID] identifies the originating municipality (e.g. 54 for Halifax)* • *[MailerID] is the eDelivery Biller ID assigned during user setup in the eDelivery Data Aggregator* • *[PubID] identifies the epost publication ID assigned by epost*		

> - *[SeqNo] is a five digit sequence number for batches (e.g. 00001)*
> - *[YYYYMMDD] is the file creation date in the format 20140407 (e.g. for 7th April 2014)*

Basis

SAP Job:

Generate the Account Authentication File using following:

Job: **Z_ACCOUNT_AUTH**
Run under user: **BATCH_JOB**
Program Name: **ZHRWC_EDELIVERY_ACCOUNT_AUTH**
Variant: **RUN_VARIANT**

Scheduled to run at 8:30am every Friday.

WRP Directories:

Directories created for the outbound Account Authentication file are as follows:

Directory for outgoing Account Authentication file:
/abapers/interfaces/hrwc/outbound/current

Archive directory which Account Authentication file is moved to when completed:
/abapers/interfaces/hrwc/outbound/archive

MoveIT Central Job:

Job **Z_ACCOUNT_AUTH** processes the current week's changes from the User Subscription files to create the Account Authentication file which is placed in the directory /abapers/interfaces/hrwc/outbound/current. MoveIT Central script picks up and moves the file to the /Queue directory of the Data Aggregator.

MoveIT Central script is used to SFTP the Account Authentication file from /abapers/interfaces/hrwc/outbound/current to /Queue directory in the Data Aggregator. Once successful, the Account Authentication file is placed in the archive directory /abapers/interfaces/hrwc/outbound/archive to be processed by the Data Aggregator.

MoveIt Details:


```
☑ ID-0254.1 - HRWC WRP - eDelivery Outbound
    🕐 Run every Mon, Tue, Wed, Thu, Fri, Sat and Sun every 15 minutes between 12:00AM and 11:59PM
    ⬇ Download new '/abapers/interfaces/hrwc/outbound/current/*aad*' from 'pnsproddb13.cfms.gov.ns.ca'
    ⬆ Upload into '/Queue' on 'HRWC - 142.176.0.144' as (original filename)
    ✉ If Failure, send email to 'sapibm@ca.ibm.com, aaronw@ca.ibm.com' using 'Mail'
    ✓ If Success, run task 'ID-0254.2 - HRWC WRP - eDelivery Outbound'
🔲 ID-0254.2 - HRWC WRP - eDelivery Outbound
    ⬇ Download '/abapers/interfaces/hrwc/outbound/current/*aad*' from 'pnsproddb13.cfms.gov.ns.ca'
    ⬆ Upload into '/abapers/interfaces/hrwc/outbound/archive' on 'pnsproddb13.cfms.gov.ns.ca' as (original filename)
```

7. Data Source consideration

The following table describes the required fields for the Account Authentication Data file. These fields are listed in the output order and provides and origin of the SAP master data fields.

#	Field	Type	Required	Table	Technical Name
1	AccountNumber	String	Y	FKKVKP	VKONT
2	LastAmount	Decimal	Y	ERDK	TOTAL_AMNT
3	OtherID	String	N	FKKVKP	GPART
4	LastBillDate	String	N	ERDK	DRUCKDAT
5	OwnerName	String	N	BUT000	NAME_ORG1
6	Address1	String	N	ADRC	STREET
7	Address2	String	N	ADRC	STR_SUPPL1
8	Address3	String	N	ADRC	STR_SUPPL2
9	City	String	N	ADRC	CITY1
10	Province	String	N	ADRC	REFION
11	PostalCode	String	N	ADRC	POST_CODE1
12	Country	String	N	ADRC	COUNTRY
13	epostGUID	String	N	FKKVKP	TBD
14	epostFlag	String	Y	FKKVKP	TBD

The logic can be read in the following manner:
1. Select billing documents from ERDK based on the date range given in the variant (Mar10 to Aug 27 2014) , The TO date will be incremented by 1 week dynamically as this is a weekly interface to fetch latest records.
2. The billing data is sorted to get the latest billing amount for each unique contract account
3. Based on the contract account , we determine the Business partner and existing value of Epost flags and guid
4. Based on the business partner , we get the mailing address using function module ISU_DB_PARTNER_SINGLE
5. We consolidate the above extracted info in the format desired by the data aggregator and send a .CSV file to application directory /INTERFACES/HRWC/OUTBOUND/CURRENT
6. The Move IT central script picks up the file and moves it to the FTP directory and also copies it to the
/INTERFACES/HRWC/OUTBOUND/ARCHIVE

Transport details :
WCDK902751   KORPALJ   Project eDelivery - AAD & New fields
WCDK902755   KORPALJ   Project eDelivery - AAD & New fields TR2

Program name
ZHRWC_EDELIVERY_ACCOUNT_AUTH

8. Data Validation

Data validation is not required for the Account Authentication data due to Master Data being driven from SAP.

Only active contract accounts with the latest billing information will be considered.

Table Field Name	Validation Rule

9. Security /Authorization Requirements

The background job that is scheduled will be secured by ZISU Authorization group. This will be used in SM37 to review job log.

10. Custom Tables/Structure in SAP

There are no custom tables required for this file output. It will be stored in standard SAP batch job spools.

Table Name							
Short text							
Table maintenance allowed							
Data class							
Table maintenance generation							
Authorization Group							
Transaction Code(for maintaining data)	*Y/N*						
Field Name	Data Element	Domain	Type	Length	Check Table-Field	Key Field	Foreign Key	Description
Comments								

11. Recovery and Restart

This interface file will be generated through batch processing. If it errors, it will be re-loaded the next day.

12. Language of texts

The requirement is to have the development and field names for the English log-in language

13. Currency and Units of Measure

N/A

14. SLA/Performance Requirements

N/A

15. Assumptions and Dependencies

Data

N/A

Configuration

N/A

Development

The following WRICEF needs to be complete in order to create the Account Authentication Data file with the correct information for the epost service:
-   HRWC_ED01_Contract Account Enhancement

16. Error Handling, Escalation and Notification

Note that there is a log that provides a list of any issues that occur in the data.

Error Message Number	Error Message Text (70 characters)	Error Conditions
1.		

17.   Testing Scenarios

Normal Functionality - test cases that ensure the enhancement functions as it should.	
ID	Description
1	
2	
3	
4	
Exception - special logic or exceptions (e.g. report should exclude certain specific condition)	
5	
6	
Error Handling - functionality in case of errors (e.g. Error Message or Error Log)	
7	
8	

18.   Additional Information and attachments

N/A