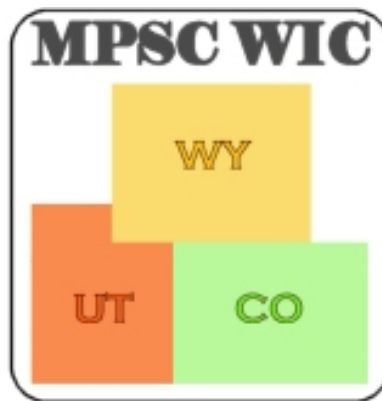


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# Mountain Plains States Consortium WIC System Project

## DETAILED FUNCTIONAL DESIGN DOCUMENT FINANCE INTERFACE WITH EBT HOST

*Presented to:*



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## Document Revisions

Revision Date	Updated By	Requested By	Description of Revision

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# 1 EBT Host Interface

## 1.1 Summary

Wyoming's primary EBT system is called WIC EBT Settlement Services (WESS). WESS is the system that processes the EBT transactions and interfaces with the retailer systems. This document contains the details regarding the files that are passed between MPSC WIC and WESS.

From the MPSC WIC perspective, there is another support system. The Card Reader Interface System (CRIS) is the system that the MPSC WIC system will utilize (via APIs) to perform its operations to the EBT Card. During these operations which include card setup, benefit issuance and re-issuance, card replacement and hot card, CRIS provides information to WESS. The CRIS/WESS interface is outside the scope of this document but it is important for the reader to understand as it is another indirect method for MPSC WIC to provide information to WESS. This document does not represent any of the details regarding the use of these APIs and how they are used within the MPSC WIC system. These details are found in the CS 6 Food Package – Food Benefits Screens DFDD.

## 1.2 Functionality / Responsibility

The following bullet points describe the high level functionality and responsibilities for the required file-based interfaces. Each of these interfaces is described in further detail in the remainder of this document.

- The MPSC WIC system is the system of record for Vendor information and is responsible for sending Vendor information to the WESS system. The decision for the responsibility for the Vendor's ACH routing and accounting information as well as ACH transactions are under consideration. This document has the ACH routing and accounting information included as an optional data in the Vendor layout that MPSC WIC sends to WESS.
- The MPSC WIC system is the system of record for UPC Product information and is responsible for sending UPC Product information to the WESS system.
- The WESS system is the system of record for Redemption (purchase transactions and their UPC products) information and is responsible for the sending Purchase (i.e. redemptions) information to the MPSC WIC system.

### 1.2.1 Assumptions and Notes

1. None

## 1.3 Technical Solution

The information for each interface will be sent by the system of record as a file to directories where a perpetual polling service by the receiving system will look for the file for processing. This polling service can scan a specified subdirectory for files following a specified naming standard at a specified time interval. There is no feedback mechanism back to the system of record regarding processing status. More information on the perpetual polling service can be found in the WESS document "Detail Design Document – RFP 0175-P".

Each interface's section contains its specific file naming standard, the specific subdirectory, specific time interval and the expected frequency (or criteria) of when a file will be produced. These items are configurable elements within the polling service.

## 1.4 Vendor File

The MPSC WIC system creates a file containing all vendors that are authorized to redeem food benefits using EBT cards.

### 1.4.1 MPSC WIC Processing Logic Details

The MPSC WIC system will create a Vendor Detail Record for every vendor whose Vendor Status is 'Active'.

MPSC WIC will create this file daily.

### 1.4.2 Technical Details

File(s) will be placed in the subdirectory based on the value found in the Batch.FBEIntVendorOut.Output.Path parameter.

The WIC System will create a vendor file using the following naming standard:

XXVENDOR.txt

Where:

XX=state code from System.StateAbbrev parameter.

VENDOR=constant to identify it as a vendor file

The file name is a static name as it is a complete replacement of the vendor information.

This file is a text file in ASCII format. The logical record length is 315 bytes. Records are separated by a carriage return and line feed (hexadecimal codes: 0D0A) at the end of each record. The carriage return/line feed pair are not counted in the length of 315 bytes. Therefore, the true record length is 317 bytes.

All fields in the record are "display" (not packed). Numeric fields are right justified and zero filled. Alphanumeric fields are left justified and space filled.

### 1.4.3 Data Contents

#### Vendor Detail Record

Position	Length	Type	Description	Req/Opt/Cond
1-5	5	N	Vendor Number	Required
6-55	50	A	Vendor Name	Required
56-57	2	A	Peer Group	Required
58-58	1	A	ACH Vendor's Flag (Y/N) Y = Participates in ACH N = Does not participate in ACH	Required
59-88	30	A	ACH Vendor's Bank Name	Required, if ACH Vendor Flag is 'Y'

Position	Length	Type	Description	Req/Opt/Cond
89-97	9	A	ACH Vendor's Bank Routing Number	Required, if ACH Vendor Flag is 'Y'
98-114	17	A	ACH Vendor's Bank Account Number	Required, if ACH Vendor Flag is 'Y'
115-144	30	A	Street Address 1 of Physical Address	Required
145-174	30	A	Street Address 2 of Physical Address	Optional
175-204	30	A	City of Physical Address	Required
205-206	2	A	State of Physical Address	Required
207-211	5	A	Zip Code of Physical Address	Required
212-215	4	A	Zip Code Extension of Physical Address	Optional
216-245	30	A	Primary Contact First Name of Physical Address	Optional
246-275	30	A	Primary Contact Last Name of Physical Address	Optional
276-305	30	A	Primary Contact Title of Physical Address	Optional
306-315	10	A	Primary Contact Phone Number of Physical Address	Optional

## 1.5 UPC File

The MPSC WIC system will be the system of record for UPCs. The UPCs are maintained either with the MPSC online screens or using the National UPC database file interface. These screens and this interface are described in the FM 1 Food Management Screens DFDD. The MPSC will create a file containing any added or modified UPC records.

### 1.5.1 MPSC WIC Processing Logic Details

There are two mechanisms within the MPSC WIC system for adding or updating UPC records. Each will trigger a UPC file to be created as described below:

- The first is using the UPC Detail Products online screen. When record(s) are added or when changes are made to existing record(s) using this screen, a file will be created. MPSC WIC System allows user to update multiple UPC records before saving. All modified UPC records will be included in the file from a single save.
- The second is performing a National UPC Database File download. When this processing is completed, a file will be created with any added or modified UPC records.

### 1.5.2 Technical Details

File(s) will be placed in the subdirectory based on the value found in the System.EBTHostUPCFileLocation parameter.

The WIC System will create a UPC file using the following naming standard:

UPC XX yyyymmddhhmmss.txt

Where:

UPC=constant to identify it as an UPC product file

XX=state code from System.StateAbbrev parameter.

yyyy=Saved year value

mm=Saved month value

dd=Saved day value

hh=Saved hour value

mm=Saved minute value

ss=Saved second value

This file is a text file in ASCII format. The logical record length is 262 bytes. Records are separated by a carriage return and line feed (hexadecimal codes: 0D0A) at the end of each record. The carriage return/line feed pair are not counted in the length of 262 bytes.

Therefore, the true record length is 264 bytes.

All fields in the record are "display" (not packed). Numeric fields are right justified and zero filled. Alphanumeric fields are left justified and space filled.

### 1.5.3 Data Contents

#### UPC Detail Record

Position	Length	Type	Description	Req/Opt/Cond
1-17	17	A	UPC Number	Required
18-67	50	A	UPC Description	Required
68-69	2	N	Category Number	Required
70-119	50	A	Category Description	Required
120-122	3	N	Subcategory Number	Required
123-172	50	A	Subcategory Description	Required



### 1.6.1 Processing Logic Details

The MPSC WIC system will process all the detail records on the interface file.

- Validation checks for each record
  - If the Vendor Number exists in the system and UPC Number exists in the system (Note: Cat and subcat is not validated as to whether it is appropriate for the UPC).
    - If the Card Number (PAN) exists in the system
      - Write the transaction to a redemption table
 

Note: The following is 'defensive' coding to ensure that reporting (i.e., high risk vendor analysis) is not rendered inaccurate because of bad data.

        - If the UPC Transaction Requested Price is zero, make it equal to the UPC Transaction Paid Price.
      - Else (PAN not found)
        - Write transaction to a holding table
        - Write an error message to log.
    - Else (if vendor not found or UPC not found)
      - Write transaction to a holding table
      - Write error message to the log
  - Write a completion message to the log with counts of successfully processed and error records.
  - Each execution, the held transactions will be re-processed to see if the PAN has been found (added during clinic re-connecting).

The MPSC WIC system will scan for file(s) every 24 hours (daily). This data can be voluminous and is not needed real time for any high priority reason.

### 1.6.2 Technical Details

File(s) will be placed in the subdirectory based on the value found in the Batch.FNEBTRedemption.InputPath parameter.

The WESS will create a Redemption file using the following naming standard:

RDM XX yyyyymmddhhmmss.txt

Where:

RDM=constant to identify it as a Redemptions file

XX=state code from System.StateAbbrev parameter.

yyyy=year value

mm=month value

dd=day value

hh=hour value

mm= minute value

ss= second value

This file is a text file in ASCII format. The logical record length is 107 bytes. Records are separated by a carriage return and line feed (hexadecimal codes: 0D0A) at the end of each record. The carriage return/line feed pair are not counted in the length of 100 bytes. Therefore, the true record length is 109 bytes.

Numeric (N Type) fields are right justified and zero filled. Alphanumeric (A) fields are left justified and space filled. Decimal (D type) fields are zero filled according to specified format. All fields are required unless otherwise specified.

Note: Purchase Date and Time are converted to universal date time and stored in the MPSC System database. The display of this data in the application is converted appropriately based on the user's time zone.

### 1.6.3 Data Contents

#### Purchase Detail Record

Position	Length	Type	Description	Req/Opt/Cond
1-5	5	N	Vendor Number	Required
6-25	20	A	Card Number (PAN)	Required
26-39	14	N	Purchase Date and Time Format ccyymmddhhmmss	Required
40-47	8	N	First Date to Spend Format ccyymmdd This ties the redemption to the issuance. It should match the first date to use from the card's issuance period bucket.	Required
48-49	2	N	Category Number	Required
50-52	3	N	Subcategory Number	Required
53-69	17	A	UPC Number	Required
70-71	2	N	UPC Length	Required
72-76	5	D	UPC Quantity Format of 999v99 (implied decimal point) This in relation to the UPC Unit Of Measure.	Required
77-81	5	D	UPC Unit Price Format of 999v99 (implied decimal point)	Required
82-90	9	D	UPC Transaction Paid Price Format of 9(7)9v99 (implied decimal point) This is the UPC Quantity times UPC Unit Price.	Required

Position	Length	Type	Description	Req/Opt/Cond
91-99	9	D	UPC Transaction Requested Price Format of 9(7)9v99 (implied decimal point) This is the aggregate requested price for all the quantity.	Required
100-107	8	N	Purchase Number This number is used to tie together the UPCs purchased together in a lane transaction.	Required