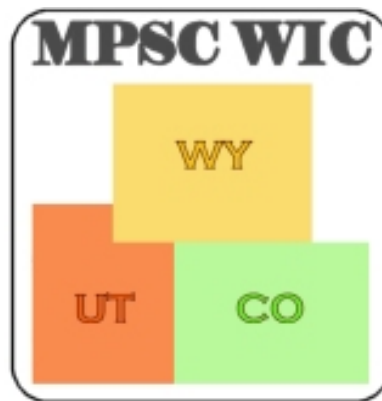

Mountain Plains States Consortium WIC System Project

DETAILED FUNCTIONAL DESIGN DOCUMENT FINANCE INTERFACE WITH BANK

Presented to:



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Document Revisions

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1 Banking Interface

The first section of the Banking Interface document contains the process of sending, receiving, and processing data about paper food instruments (paper FIs) that are issued and redeemed for the WIC program. The second section addresses the process of sending, receiving, and processing data about checks issued for the Farmers' Market Nutrition Program.

1.1 Paper FI Summary

This Banking interface contains the process of sending, receiving, and processing data about paper food instruments (FIs) that are issued and redeemed for the WIC program. Multiple data files are sent and received via File Transfer Protocol (FTP) between WIC and the bank.

1.2 Functionality / Responsibility

The following bullet points describe the functionality and responsibilities of the banking FI interface between WIC and BANK:

- WIC sends a daily file of WIC vendors. The Vendor File is used to pay or reject FIs. This is based on the presence of a vendor record (present – Pay, not present – Reject).
- WIC sends a daily file of food instruments that were issued since the last transmission was sent to the bank so the bank redeems only valid FIs. Each food instrument has a set not-to-exceed (NTE) amount (per peer group) calculated for each FI. The NTE amount is calculated using the peer group's average price with a "lift" factor of each food product included on that FI. This data is transmitted to the bank at end-of-day when WIC processing has been completed. This process is run immediately before receiving and processing redemption data from the bank. For vendor's participating in ACH, Colorado pays (in a subsequent transaction) rejection transaction with a return code of 41 (Over Estimated Amount).
- The bank makes available a daily file of FI redemption data to WIC, which is then downloaded and processed by WIC.
- A Rich Text Format (RTF) Report file of all transactions is also made available by the bank. This report file contains information about the previous day's Vendor File processing and the current day's Redemption File transactions.

1.2.1 Assumptions and Notes

1. All files are in compressed ZIP format and are password-protected, so they are not transmitted as plain text for security reasons.
2. Note that the terms "FI" and "check" are used interchangeably throughout this document.

1.3 Technical Details

The data files are sent and received via File Transfer Protocol (FTP). The state's database server will initiate the process via MS SQL Server. After the data is created, the state web server will transmit the data to the bank's FTP server using FTP over SSL. The FTP server with appropriate logons is established at the bank.

The following FTP, ZIP or file directory related system parameters are utilized by each Banking Interface batch process unless otherwise noted:

Batch.FNBatchIntFTPServerName
 Batch.FNBatchIntFTPServerPort
 Batch.FNBatchIntZIPSendToFolder – Used by FI Issuance File and Vendor File
 Batch.FNBatchIntZIPFromFolder – Used by FI Redemption File
 Batch.FNBatchIntFTPServerUserID
 Batch.FNBatchIntFTPPassword
 Batch.FNBatchIntZIPPassword
 Batch.FNBatchIntIssuance.Output.Path – Used by FI Issuance File
 Batch.FNBatchIntVendor.Output.Path – Used by Vendor File
 Batch.FNBatchIntRedeem.Input.Path – Used by FI Redemption File

1.4 Extract and Load Files

This section describes the following files employed by the interface: Issuance File, Vendor File, and Redemption File.

1.4.1 Attributes

How Initiated	Batch
Run Frequency	Daily
Affected Data	Food Instrument and Vendor
Staff	State Office
External Organizations	Bank
Period Covered	Current Day
Inputs to WIC	Redemption (Paid) File and Report File
Outputs from WIC	FI Issuance File and Vendor File
Prerequisites	Issuance File creation and Vendor File creation
Effect on Other Processes	Food Instrument processing. Caseload/Financial accuracy

1.4.2 FI Issuance File

The FI Issuance file contains issued FIs to be sent to the bank. Note that we do not send voided and replaced FIs since there is an additional charge from the bank to stop a payment.

1.4.2.1 Processing Logic Details

Issuance File Name: XXmmddy.001.zip

Where:

XX=state code from Finance.BankFIStateCode parameter.

mm=Processing date, month value

dd=Processing date, day value

yy=Processing date, year value

.001 = File sequence number. If multiple files are sent on one day, this number is the next sequential number.

This file is a password-protected compressed zip file containing a text file in ASCII format. All fields in the record are "display" (not packed). Numeric fields are right justified and zero filled.

Data file inside ZIP file follows same convention except the ".zip" is replaced with ".txt" (i.e. XXmmdyy.001.txt).

The logical record length is 176 bytes. Records are separated by a carriage return and line feed at the end of each record. The carriage return/line feed pair are not counted in the length of 176 bytes. Therefore, the true record length is 178 bytes.

All issued FIs that have not yet been transmitted to the bank are extracted with the exception of FIs that are marked as Direct Ship. Direct ship FIs will not be sent to the bank as their redemption is not done via vendors. The Status is set to "N" unless it is an investigation family; then it is set to 'C'.

A reset of the FI extract indicator so that a check can be resent will allow an FI to be resend. An extract counter is maintained for each FI so that we can identify FIs that have been previously sent. This allows the proper status ("M") to be set so that re-sends are not rejected as duplicates by the bank.

The issue date of an FI is the date the FI was printed.

For Food Price Resends, a process finds all Non-Voided, Unredeemed and Unexpired FIs whose contents include food items (Containers records) where the Price Resend checkbox was checked. This process will:

- Reset the FI's extract indicator
- Create records in the FoodPriceResend table with the current date, FI Number and the Average Price of the Statewide Peer Group (from the temporary table of existing prices). The statewide peer group number is contained in the system parameter 'Vendor.WIC50%PeerGroupNbr'.
- Uncheck the Price Resend checkbox (on the container records).

There are 10 maximum amounts provided for on the file. These NTEs are calculated for the different vendor peer groups. The calculation is done by aggregating the FI content's average price with the appropriate factoring (either percentage or standard deviation lifts). These values are passed on the issuance layout and stored in a temporary table for selection when the redemption record comes back from the bank. Any resent FI has these values calculated based on current date and will replace the temporary table records.

NTE amounts are calculated by the Banking Interface batch process immediately before the Issuance File is created. All foods will have a price structure that will allow the NTE to be calculated. If for some technical reason, a food on the FI does not have a peer group price structure in the system, a default amount that is found in the system parameter Finance.FIDefaultMaxAmt is used for the NTE amount for that peer group.

Type:

N = Numeric, right justified zero filled

\$ = Amount, right justified zero filled last two positions assumed decimal

A = Alpha numeric, left justified space filled.

1.4.2.2 Data Contents

Issuance File Header

Position	Length	Type	Description
1	1	A	Record Type Literal value always "H"
2-3	2	A	State Abbreviation: Static XX where XX is the state code from the Finance.BankFIStateCode parameter.
4-11	8	N	File creation date, format: YYYYMMDD
12-176	165	A	Filler

Issuance File Detail

Position	Length	Type	Description
1	1	A	Record Type Literal value always "D"
2-11	10	N	Check number
12-19	8	N	Issue Date, format: YYYYMMDD
20-27	8	N	First use Date, format: YYYYMMDD
28-35	8	N	Last use Date, format: YYYYMMDD
36-41	6	\$	Maximum Amount Peer Group 1
42-47	6	\$	Average Price Peer Group 1
48-53	6	\$	Maximum Amount Peer Group 2
54-59	6	\$	Average Price Peer Group 2
60-65	6	\$	Maximum Amount Peer Group 3
66-71	6	\$	Average Price Peer Group 3
72-77	6	\$	Maximum Amount Peer Group 4
78-83	6	\$	Average Price Peer Group 4
84-89	6	\$	Maximum Amount Peer Group 5
90-95	6	\$	Average Price Peer Group 5
96-101	6	\$	Maximum Amount Peer Group 6
102-107	6	\$	Average Price Peer Group 6
108-113	6	\$	Maximum Amount Peer Group 7
114-119	6	\$	Average Price Peer Group 7
120-125	6	\$	Maximum Amount Peer Group 8
126-131	6	\$	Average Price Peer Group 8

Position	Length	Type	Description
132-137	6	\$	Maximum Amount Peer Group 9
138-143	6	\$	Average Price Peer Group 9
144-149	6	\$	Maximum Amount Peer Group 10
150-155	6	\$	Average Price Peer Group 10
156	1	A	Status Code N = New Issued. Will error out duplicates C = Compliance item from state. M = Correction – Overlays the existing issued item OR adds new issued if not present. blank = (Not used) State Initiated ACH
157-162	6	N	(Not used) Vendor Code Zero Filled if not used
163-168	6	N	(Not used) State Initiated ACH Payment Amount Format 9(04)V99. Zero Filled if not used
169-174	6	N	(Not used) State Initiated ACH Requested Amount Format 9(04)V99. Zero Filled if not used
175-176	2	A	(Not used) State Initiated ACH Reason Code Zero Filled if not used

Issuance File Trailer

Position	Length	Type	Description
1	1	A	Record Type Literal value always "T"
2-7	6	N	Total record count
8-176	169	A	Filler

1.4.3 Vendor File

A file of vendor information for all vendors in the system is sent to the bank. This file contains current status information for each vendor, as well as name and address information. There is no net change to vendors; the bank does a complete replacement of the vendors based on the current contents of the file.

1.4.3.1 Processing Logic Details

Vendor File Name: XXVENDOR.ZIP where XX is from Finance.BankFIStateCode parameter.

The Vendor File name is a static name and is the same for each day's file. A complete replacement of the vendor information is sent each day.

Data file inside ZIP file follows same convention except the ".zip" is replaced with ".txt" and the state abbreviation is dropped (i.e. VENDOR.txt).

The file is a password-protected compressed ZIP format file containing a plain text file in ASCII format. The logical record length is 227 bytes. Records are separated by a carriage return and line feed (hexadecimal codes: 0DOA) at the end of each record. The carriage return/line feed pair is not counted in the length of 227 bytes. Therefore, the true record length is 229 bytes.

This file contains detail records followed by one trailer record. The trailer record contains a count of all the detail records.

ACH Vendor Information is sent if the vendor has ACH setup. The ACH indicator determines which ACH information (Owner, Chain or Store).

The Vendor File(s) is rejected by the bank if the trailer record is missing or if the total count does not match the computed count.

Vendor information is extracted for all vendors in the system. This file is transmitted to the bank so that they can pay FIs redeemed by active vendors and reject FIs redeemed by inactive vendors.

Type:

N = Numeric, right justified zero filled

\$ = Amount, right justified zero filled last two positions assumed decimal

A = Alpha numeric, left justified space filled.

1.4.3.2 Data Contents

Vendor File Detail Record

Position	Length	Type	Description
1-5	5	N	Vendor Number
6-40	35	A	Vendor Name
41-75	35	A	Street Address 1
76-110	35	A	Street Address 2
111-145	35	A	City
146-147	2	A	State
148-153	5	A	Zip Code
154-156	4	A	Zip Code Extension
157-160	4	A	Corporate Code. This is the chain number.
161-162	2	A	Peer group Values 1 through 10
163-170	8	A	Not used (Termination Date Format YYYYMMDD)
171-200	30	A	ACH Vendor's Bank Name
201-209	9	A	ACH Vendor's Bank ABA
210-226	17	A	ACH Vendor's Bank Account Number
227	1	A	ACH Vendor Flag (Y/N)

Vendor File Trailer Record

Position	Length	Type	Description
1-5	5	A	Static characters: TOTAL
6-11	6	N	Count of detail records (do not include this total record in count)

12-15	4	A	File type, Static Characters: VEND
16-227	212	A	Filler: fill with spaces or zeros

1.4.4 FI Redemption File

The FI Redemption File from the bank contains payment amounts, rejection amounts and status information.

1.4.4.1 Processing Logic Details

Redemption File Name: PDXXmmdd.ZIP

Where:

PD = Static characters: PD

XX = State Code from Finance.BankFIStateCode parameter.

mm = Processing date, month

dd = Processing date, day value

Data file inside ZIP file follows same convention except the ".zip" is replaced with ".txt" (i.e. PDXXmmdd.txt).

The logical record length is 76 bytes. Records are separated by a carriage return and line feed at the end of each record. The carriage return/line feed pair is not counted in the length of 76 bytes. Therefore, the true record length is 78 bytes.

This file contains a number of detail records followed by one trailer record. Each detail record on the Redemption File represents an FI that was either paid or rejected. Information from the Redemption File is used to update the FI table in the WIC system.

In the event that an FI is on the Redemption File and is not yet in the WIC system, the information is stored in a "Sync" table to be merged when the FI is added to the system. This can happen if a laptop is not synchronized in a timely fashion. This can also indicate a case of fraud.

In the event that an FI is on the Redemption File where that FI number in the WIC system has already been redeemed (i.e. Paid), the information is stored in a Sync table to be researched.

When a Paid transaction is processed on an FI where a previously Reject transaction was processed, update the redemption related information while leaving the rejection information in place.

When a Rejected transaction is processed on an FI where a previously Reject transaction was processed, overlay the rejection related information.

When a Paid transaction is processed on an FI where a no previously transaction was processed, the Amount represents both the Payment Requested Amount and the Paid Amount.

Entries in the Sync table can be viewed by an online screen and should be monitored by finance personnel.

The MPSC will attempt to re-process Sync table records prior to the processing of any bank redemption files. The 'No Issuance' type sync records will be checked to see if their FI number were added to the system. If the FI record is found, the redemption information will be transferred to the FI and the sync record will be physically deleted. The 'Duplicate'

type sync records will be checked to see if their FI number is in a unredeemed state. If the FI record is, the redemption information will be transferred to the FI and the sync record will be physically deleted.

Vendor Price List data is captured for use for high risk vendor analysis report D (Redeemed Prices Higher than Price List). For each redeemed FI, this data is captured in the VendorFI table. The Vendor Average Price is calculated by retrieving survey records that are associated with the food items in the FI. If any food item does not have a recent survey record (determined by the survey completed date being within the current date minus the value found in the system parameter Vendor.ValidSurveyWithinDays), then do not capture a record for that FI. The Vendor Std Dev is pulled by retrieving the vendor's peer group records that are associated with the food items in the FI. If any food item does not have a recent peer group record (determined by the effective date being within current date minus the value found in the system parameter Vendor.ValidSurveyWithinDays), then do not capture a record for that FI.

Type:

N = Numeric, right justified zero filled

\$ = Amount, right justified zero filled last two positions assumed decimal

A = Alpha numeric, left justified space filled.

1.4.4.2 Data Contents

Redemption File Detail Record

Position	Length	Type	Description
1-2	2	A	State Abbreviation: Static XX where XX is the state code from the Finance.BankFIStateCode parameter.
3-12	10	N	Check number
13-22	10	N	Amount Format 9(8)V99 Return Code is 00 (Paid) – Paid Amount Return Code not 00 (Reject) – Payment Requested Amt
23-30	8	N	Date Posted (YYYYMMDD)
31-38	8	N	File Date (YYYYMMDD)
39	1	A	Not Used (Force Code; A=State Authorized, F=Force Paid, '=Normal Paid)
40-44	5	N	Vendor Number
45-46	2	N	Return Code 00 = Item is Paid 01 = Missing Vendor Stamp 03= Unreadable Vendor Stamp 07 = Invalid vendor 10 = Stale Date / Void 11 = Redeemed Early / Void 22 = Missing Signature / Void 31 = Altered / Void 41 = Exceeds Estimated Amt / Void 50 = Second Presentment / Void 51 = Over Account Max.

Position	Length	Type	Description
			85 = Duplicate paid Serial / Fix
47-56	10	N	Trace Number
57-66	10	N	Average Price Format 9(8)V99
67-76	10	N	NTE Format 9(8)V99

Redemption File Trailer Record

Position	Length	Type	Description
1-5	5	A	Literal: Static TOTAL
6-12	7	N	Count of detail records.
13-76	44	A	Filler

2 Farmers' Market Nutrition Program Banking Interface

Note: No FMNP bank interface is defined for MPSC because no MPSC states will be using the FMNP functionality. The details reflected below are from the transfer system. At such time as a state desires to use the FMNP functionality in the MPSC system, the Bank Interface specifications will have to be determined in concert with the appropriate financial institution and this section updated.

2.1 FMNP Check Summary

This section of the interface document contains the process of sending, receiving, and processing data about Farmers' Market Nutrition Program (FMNP) checks issued utilizing the WIC application. Multiple data files are sent and received via File Transfer Protocol (FTP) between WIC and the bank.

2.2 Functionality / Responsibility

The following bullet points describe the functionality and responsibilities of the banking FMNP interface between WIC and BANK:

- The FMNP vendor file is sent every time the state has updates to the vendors. This is sent by the program managing FMNP. The FMNP Vendor File is used to reject FIs redeemed by those not in the file. This file is not documented in this document.
- WIC sends a daily file of FMNP checks that were issued since the last transmission was sent to the bank so the bank redeems only valid checks. Each check has the same not-to-exceed (NTE) amount as defined in system administration. This data is transmitted to the bank at end-of-day when WIC processing has been completed. This process is run immediately before receiving and processing redemption FMNP data from the bank.
- The bank makes available a daily file of FMNP check redemption data to WIC, which is then downloaded and processed by WIC.
- A Rich Text Format (RTF) Report file of all transactions is also made available by the bank. This report file contains information about the current day's FMNP Redemption File transactions.

2.2.1 Assumptions and Notes

1. All files are in compressed ZIP format and are password-protected, so they are not transmitted as plain text for security reasons.

2.3 Technical Details

The data files are sent and received via File Transfer Protocol (FTP). The FTP occurs over SSL and that the MPSC batch processes that interface must be initiated from the web server. FTP sites with appropriate logons are established at each state and the bank.

2.4 Extract and Load Files

This section describes the following files employed by the interface: FMNP Issuance File, FMNP Vendor File, and FMNP Redemption File.

2.4.1 Attributes

How Initiated	Batch
Run Frequency	Daily
Affected Data	FMNP Checks
Staff	State Office and Local Agency staff
External Organizations	Bank
Period Covered	Current Day
Inputs to WIC	FMNP Redemption (Paid) File and Report File
Outputs from WIC	FMNP Check Issuance File
Prerequisites	Issuance File creation
Effect on Other Processes	FMNP report accuracy

2.4.2 FMNP Issuance File

The FMNP Issuance file contains issued FMNP checks to be sent to the bank.

2.4.2.1 Processing Logic Details

FMNP Issuance File Name: XXmddy.001.zip

Where:

XX=state code from Finance.BankFMNPStateCode parameter.

mm=Processing date, month value

dd=Processing date, day value

yy=Processing date, year value

.001 = File sequence number. If multiple files are sent on one day, this number is the next sequential number.

This file is a password-protected compressed zip file containing a text file in ASCII format. All fields in the record are "display" (not packed). Numeric fields are right justified and zero filled.

The logical record length is 110 bytes. Records are separated by a carriage return and line feed at the end of each record. The carriage return/line feed pair are not counted in the length of 110 bytes. Therefore, the true record length is 112 bytes.

All issued FMNP checks that have not yet been transmitted to the bank are extracted.

A function that resets the FMNP check extract indicator so that a check can be resent is part of the Banking Interface, and if needed, can be run manually before creating the FMNP Issuance File. An extract counter is maintained for each FMNP check so that we can identify

FMPN checks that have been previously sent. This allows the proper status to be set so that re-sends are not rejected as duplicates by the bank.

The issue date of a FMNP check is the date the check was issued.

There are 10 maximum amounts provided for on the file. All NTEs contain the predetermined worth of the FMNP check as defined in System Administration.

Type:

N = Numeric, right justified zero filled

\$ = Amount, right justified zero filled last two positions assumed decimal

A = Alpha numeric, left justified space filled.

2.4.2.2 Data Contents

Issuance File Header

Position	Length	Type	Description
1 - 3	3	A	Static State Abbreviation from Finance.BankFMNPStateCode parameter.
4 - 11	8	N	File creation date, format: YYYYMMDD
12 - 110	99	A	Filler (spaces or zeroes)

Issuance File Detail

Position	Length	Type	Description
1 - 1	1	A	Record Type Literal value always "D"
2 - 11	10	N	Check number
12 - 19	8	N	Issue Date, format: YYYYMMDD
20 - 27	8	N	First use Date, format: YYYYMMDD . Note: FSMC adds 65 days to 1 st use date to for the stale date edit. Also use this field to put in Issue Date.
28 - 35	8	N	Last use Date , format: YYYYMMDD, Optional Zero filled if not used.
36 - 41	6	\$	Maximum Amount 1, Format 9(04)V99 with last two digits assumed decimal. Zero filled if not used
42 - 47	6	\$	Maximum Amount 2 Zero filled if not used
48 - 53	6	\$	Maximum Amount 3 Zero filled if not used
54 - 59	6	\$	Maximum Amount 4 Zero filled if not used
60 - 65	6	\$	Maximum Amount 5 Zero filled if not used
66 - 71	6	\$	Maximum Amount 6 Zero filled if not used
72 - 77	6	\$	Maximum Amount 7 Zero filled if not used
78 - 83	6	\$	Maximum Amount 8 Zero filled if not used
84 - 89	6	\$	Maximum Amount 9 Zero filled if not used

Position	Length	Type	Description
90 – 90	1	A	Status Code N = New Issued. Will error out duplicates C = Compliance item from state. M = Correction – Overlays the existing issued item OR adds new issued if not present. V = Void Item, Will void the item. A = ACH processing. A = ACH item (Column 91 – 110, required for an ACH item) Note: Only “N = New Issued” are produced from the system. Any other status code would need to be inserted into the record by the system’s database administrator.
91 – 96	06	N	Vendor Code Zero Filled if not used.
97 – 102	06	N	ACH Payment Amount Format 9(04)V99. Last two digits assumed Decimal. Zero Filled if not used.
103 – 108	06	N	ACH Requested Amount Format 9(04)V99. Last two digits assumed Decimal. Zero Filled if not used.
109 – 110	02	A	ACH Reason Code. Zero Filled if not used.

Issuance File Trailer

Position	Length	Type	Description
1	1	A	Record Type Literal value always “T”
2-7	6	N	Total record count
8-110	103	A	Filler

2.4.3 FMNP Redemption File

The FMNP Redemption File from the bank contains payment amounts and status information.

2.4.3.1 Processing Logic Details

FMNP Redemption File Name: PDXXmddd.ZIP

Where:

PD = Static characters: PD

XX = State Code from Finance.BankFMNPStateCode parameter.

mm = Processing date, month

dd = Processing date, day value

The logical record length is 80 bytes. Records are separated by a carriage return and line feed at the end of each record. The carriage return/line feed pair is not counted in the length of 80 bytes. Therefore, the true record length is 82 bytes.

This file contains a number of detail records followed by one trailer record. Each detail record on the FMNP Redemption File represents a FMNP check that was either paid or rejected. Information from the FMNP Redemption File is used to update the FMNP check table in the WIC system.

Type:

N = Numeric, right justified zero filled

\$ = Amount, right justified zero filled last two positions assumed decimal

A = Alpha numeric, left justified space filled.

2.4.3.2 Data Contents

Redemption File Detail Record

Position	Length	Type	Description
1 – 8	8	8	Bank Routing and transit number
9 – 18	10	N	Account Number
19 – 25	7	N	Check number
26 – 35	10	N	Paid amount Format 9(8)V99.
36 – 41	6	N	Date Posted Format MMDDYY
42 – 47	6	N	File date Format MMDDYY
48 – 54	7	A	Filler
55 – 55	1	A	Force Code A= State Authorized F= Force Paid = Normal Paid
56 – 57	2	A	Filler
58 – 62	5	N	Vendor Number.
63 – 64	2	N	Paid Status or return status. (If desired, state may request paid status reasons, otherwise paid = 00) 00 = Item is Paid 01 = Missing Vendor # 03= Unreadable Vendor 08 = Invalid vendor 10 = Stale Date /Void 11 = Early cashing 22 = Missing 1 st Signature / VOID 31 = Altered / Void 41 = Unreasonable Dollar/ Void 50 = 2 nd Presentment / Void 51 = Over Account Max.
65 – 70	6	A	Filler

Position	Length	Type	Description
71-80	10	N	Trace Number

Redemption File Trailer Record

Position	Length	Type	Description
1 – 5	5	A	Literal: Static "TOTAL"
6 -12	7	N	Count of detail records