

# Central Puget Sound Regional Fare Coordination Project

smart move  
for the region

January 24, 2008

Mr. Travis Kriplean  
101 Paul G. Allen Center  
Computer Science Department  
University of Washington  
Box 352350  
Seattle, WA 98195-2350

## **RE: Public Records Request**

Dear Mr. Kriplean:

Enclosed with this letter are the public records that we have determined are responsive to your request per your letter dated 10/30/07 and received by the Project on 11/14/07. For your convenience, we have included a summary table of the enclosed material.

Your records request was described in four items. The enclosed material responds to items 1, 2 and 3 excerpted below from your letter:

1. "a clear definition of what information is to be shared with institutional partners."
2. "obtain the fields that might be included in a report provided to an institutional partner"
3. "a description of what that field means. . .to include all fields that may be included in such a report, not an example subset."

Relative to your item number 4, excerpted below, we have no additional records to provide. There is no "additional data" to the records responding to items 1, 2 and 3.

4. "information about the process and policies which will govern requests for additional information by institutional partners that go beyond the data fields the transit agencies regularly provide in the reports described above. . . .e.g. what is the review process that will be undertaken? Who is responsible for the review? How will ORCA users be informed?"

If you have any questions, please call me at 206-684-1562.

With best regards,

  
Candace Carlson  
Contract Administrator

### Joint Board

Community Transit  
Chief Executive Officer

Everett Transit  
Transportation Services  
Director

King County Metro Transit  
General Manager

Kitsap Transit  
Executive Director

Pierce Transit  
Chief Executive Officer

Sound Transit  
Chief Executive Officer

Washington State Ferries  
Chief Executive Officer

cc: Rose Fallaw, ERG Transit Systems

January 24, 2008

**RFCS Contract No. 229944**

*The following material has been identified as responsive to the Kriplean public records request.*

<b>Document &amp; Section Name</b>	<b>Section No. or Range</b>	<b>Description</b>
<b>DR 111</b>		
Institutional Card Account Transaction History	4.2.3.1 through 4.2.3.1.8	This section lists and defines the boarding, count, fare payment and revalue transaction data for Institutional Cards
Institutional Card Status	4.2.3.6 through 4.2.3.6.8	This section lists and defines the fields to show the cards that have products loaded and not currently in use; the cards which are in circulation but have no activity recorded against them within the current month; and all of the blocked cards as of the current point in time.
<b>DR111 Appendix C Business Views (Ad Hoc Reporting)</b>		
C.1 Journey Data	C.1.1 through C.1.2	These tables provide data on "Billable Linked Trip" and "Linked Trip" data
C.2 Transaction Data	C.2.2 through C.2.3	These tables provide data on "Fare Payment Transactions" and "Liability Write-Off"
	C.2.5 through C.2.6	These tables provide data on "Recovered Revalue" and "Revalue Transactions"
	C.2.8	This table provides data on "Transaction Summary"
C.4 Configuration Data	C.4.4 through C.4.6	These tables provide data on "Card Type Look-up", "Cardholder Lookup" and "Claim Status Look-up"
	C.4.9	This table provides data on "Institution Lookup"
	C.4.12 through C.4.18	These tables provide data on "Participant Lookup", "Passenger Type Lookup", "Payment Method Lookup", "Product Type Lookup", "Recredit Reason Lookup", "Transaction Description Lookup", and "Vehicle Type Lookup"

#### 4.2.3.1 Institutional Card Account Transaction History

##### 4.2.3.1.1 Report Purpose

The Institutional Card Account Transaction History report lists transaction data for Institutional cards, as required by a Lead Agency.

This report will show the boarding details, count, and value for fare payment and revalue transactions for each Institutional card account used over a specified period of time. This information will be useful to the Institutions when auditing and tracking their own cardholder usage.

##### 4.2.3.1.2 Summary Details

**Table 241: Summary Details – Institutional Card Account Transaction History**

Report Definition	Short Description
Report Category	Institutional
Report Audience	All Agencies and Institutions as requested by their Lead Agency
Contract [1] Reference	6-III-13.3.1 (e) iv
Report Type	Detail
Data Source	Clearinghouse
Security/Access Role(s)	Institutions, Institutional, LeadAgent

##### 4.2.3.1.3 Report Selection Criteria

**Table 242: Report Selection Criteria – Institutional Card Account Transaction History**

Selection Criteria
Show transaction data detail by agent or participant(s), route(s), card number(s), and product(s) for the reporting date range (timeframe). Exclude all test data.

##### 4.2.3.1.4 Report Inputs

**Table 243: Report Inputs – Institutional Card Account Transaction History**

Parameter	Description of Use
Institutional ID	Can enter a specific Institution, or if no selection made, then all applicable Institutional accounts will be displayed as per the Lead Agency selected.
Lead Agency	Select a Lead Agency from a list of participants. Only one Lead Agency can be selected. (Either a Lead Agency or a Service Participant must be selected.)
Service Participant	Select a Service Participant. Only one Service Participant can be selected. (Either a Lead Agency or a Service Participant must be selected.)
Route ID	Select All or specific Route ID(s).
Card Serial Number	Enter a specific CSN. No entry will return all cards based on other selection criteria.

Parameter	Description of Use
Product Type	If none selected then all product types will be displayed
Report Period	The date range for data accumulation in the report. Date = Date of transaction.

**Note:** An Institution ID or Lead Agency must be selected.

#### 4.2.3.1.5

#### Report Fields (Shown on Report)

**Table 244: Report Fields – Institutional Card Account Transaction History**

Field Name	Description	Group by order	Sort Order
Lead Agency	The Agency, which oversees the Institutional account(s) listed on the report.	1	
Institution	Employers, educational Institutions, social service agencies and other entities with whom the Agencies contract for distribution of RFCS smart cards with RFCS transit products or stored value to individual cardholders for use in the RFCS program.	2	
Branch (if applicable)	A division of an Institution.		
CSN	The card serial number printed on each card which represents the data for each card account displayed on the report	3	
Passenger Type	This will show the passenger type for each card. Passenger Type is defined as a broad category of riders who share a similar fare structure; for example, seniors, adults, children, and students. Fare products may be based on fare categories. Passenger types are also known as Fare categories.		1
Product Type	Display of Purse, Pass or Customized Product for each Institutional card.		2
Transaction Type	This report will display all fare payment, revalue, and automatic revalue transactions.		3
Voucher Payment	This is a yes/no field that will indicate if the transaction was from a voucher payment		
Device Location	Location of the device where the transaction was created.		
Service Participant	Represents the operator on whose behalf the UD transaction is generated.		
Source Participant	Represents the commissioned owner of the device on which UD transactions are generated		

Field Name	Description	Group by order	Sort Order
Transit Operator	The operator of the transit vehicle		
Route ID	The specific route id in which the transaction took place		
<u>Add Value</u>	<u>The value associated with all product purchase transactions (credit)</u>		
<u>Fare Payment</u>	<u>The value associated with a transit boarding (debit)</u>		
<u>CEFFV</u>	<u>The cash equivalent full fare value associated with the fare payment – not necessarily the amount debited from the card</u>		
Transaction Count	The number of transactions – subtotaled by smart card ID.		
<u>Transaction Value Date and Time</u>	<u>This column will display the value for all NGFS and GFS fare payment, revalue, and automatic revalue. Date and time that the transaction was generated from the device.</u>		
<u>Transaction Date and Time</u>	<u>Date and time that the transaction was generated from the device.</u>		

#### 4.2.3.1.6

#### Report Field Formula

Table 245: Report Field Formula – Institutional Card Account Transaction History

Field Name	Description	Calculation
Subtotal <u>Add Value</u>	The valuesum of all <u>Add Value</u> transactions by CSN	SUM( <u>Add Value</u> )
Subtotal <u>Fare Payments</u>	The sum of all fare payment transactions by CSN	SUM( <u>Fare Payments</u> )
Subtotal <u>CEFFV</u>	The sum of the CEFFV by CSN	SUM( <u>CEFFV</u> )
Subtotal Txns	The total sum of transactions by CSN	SUM(Transactions)
Total <u>Add Value</u>	The sum of subtotal valuesall <u>Add Value</u> transactions	SUM(Subtotal <u>Add Value</u> )
Total <u>Fare Payments</u>	The sum of all fare payment transactions	SUM( <u>Fare Payments</u> )
Total <u>CEFFV</u>	The sum of the CEFFV	SUM( <u>CEFFV</u> )
Total Txns	The sum of subtotal txns	SUM(Subtotal Txns)

#### 4.2.3.1.7 Report Output Format

Table 246: Report Output Format – Institutional Card Account Transaction History

Output	Description/Examples
Scheduled (y/n)	Yes
Scheduled Frequency	Daily w/MTD data
On Demand (y/n)	Yes
On Demand Data Availability	Daily
Delivery Method	Crystal Enterprise - ePortfolio
Format	Excel or similar

#### 4.2.3.1.8 Report Layout

Institutional Card Account Transaction History														
Report Period: 12/25/2004 to 12/26/2004														
Lead Agency: King County Metro														
Institution: University of Washington														
Product Type: KCM \$2														
Branch	CSN	Passenger Type	Product Type	Txn Type	Device	Service Participant	Source Participant	Transit Operator	Route ID	Add Value	Fare Payment	CEFFY	Voucher Payment	Txn Date/Time
Seattle	6688000000	Adult	KCM \$2 Pass	Pass Revalue	TRU					\$30.00			Yes	12/26/2004 10:17:57 AM
		Adult	KCM \$2 Pass	Pass Use	KCM Bus 228	KCM	KCM	KCM	123		\$2.00	\$2.00	No	12/26/2004 10:25:57 AM
		Adult	KCM \$2 Pass	Pass Use	KCM Bus 228	KCM	KCM	KCM	456		\$1.00	\$2.00	No	12/26/2004 10:25:57 AM
Subtotals for CSN 6688000000										\$30.00	\$3.00	\$4.00		Txns: 3
	3214550000	Adult	KCM \$2 Pass	Pass Revalue	CST					\$30.00			Yes	12/26/2004 10:20:57 AM
		Adult	KCM \$2 Pass	Pass Use	KCM Bus 2358	KCM	KCM	KCM	234		\$2.00	\$2.00	No	12/26/2004 10:31:20 AM
Subtotals for CSN 3214550000										\$30.00	\$2.00	\$2.00		Txns: 2
Total University of Washington										\$60.00	\$5.00	\$6.00		Txns: 5

Figure 48: Example of Institutional Card Account Transaction History Report

#### **4.2.3.6 Institutional Card Status**

##### **4.2.3.6.1 Report Purpose**

The Institutional Card Status report will serve to show the number of cards that have products loaded and are not currently in use, the cards which are in circulation but have no activity recorded against them within the current month, and all of the blocked cards as of the current point in time.

This will assist the Institutions in determining if the cardholders have registered their cards.

#### 4.2.3.6.2 Summary Details

**Table 271: Summary Details - Institutional Card Status**

Report Definition	Short Description
Report Category	Institutional
Report Audience	All Agencies and Institutions as requested by their Lead Agency.
Contract [1] Reference	6-III-13.3.1 (e) vi
Report Type	Summary
Data Source	Clearinghouse
Security/Access Role(s)	Institutions, Institutional, LeadAgent

#### 4.2.3.6.3 Report Selection Criteria

**Table 272: Report Selection Criteria – Institutional Card Status**

Selection Criteria
Show device data detail by Agency, participant(s), branch type(s), and activity status for the current month (timeframe). <del>Exclude all test data.</del>

#### 4.2.3.6.4 Report Inputs

**Table 273: Report Inputs – Institutional Card Status**

Parameter	Description of Use
Institutional ID	If none selected then all applicable Institutional accounts will be displayed as per the Lead Agency selected.
Lead Agency	Select one participant from a list. Only one participant can be selected to run the report.

**Note:** An Institution ID or Lead Agency must be selected.

#### 4.2.3.6.5 Report Fields (Shown on Report)

**Table 274: Report Fields – Institutional Card Status**

Field Name	Description	Group by order	Sort Order
Lead Agency	The Agency, which oversees the Institutional account(s) listed on the report.	1	
Institutional	Employers, educational Institutions, social service agencies and other entities with whom the Agencies contract for distribution of RFCS smart cards with RFCS transit products or stored value to individual cardholders for use in the RFCS program.	2	



Field Name	Description	Group by order	Sort Order
Branch (if applicable)	A division of an Institution.	3	
Activity Status	The following activity statuses will be possible on this report for each card: Loaded but not used – This will show cards with transit application that have any of the products loaded, but no fare payment transactions recorded against them. No Activity/Not Blocked – An unblocked card – and based on the report period supplied, there has been no activity within that period. Blocked – Card Blocked.	4	
CSN	The card serial number printed on each card which represents the data for each card account displayed on the report.		
Cardholder's First Name	First Name of the Institutional cardholder. Only if the card is linked, otherwise it will be blank if the card is anonymous.		
Cardholder's Last Name	Last Name of the Institutional cardholder.		
Count	Subtotal of all the cards by card status.		

#### 4.2.3.6.6 Report Field Formula

Table 275: Report Field Formula – Institutional Card Status

Field Name	Description	Calculation
Cards Issued	This field will display a distinct count of the cards issued by a Lead Agency to an Institution by activity status.	Distinct Count (CSN)

#### 4.2.3.6.7 Report Output Format

Table 276: Report Output Format – Institutional Card Status

Output	Description/Examples
Scheduled (y/n)	Yes
Scheduled Frequency	Daily – MTD data
On Demand (y/n)	Yes
On Demand Data Availability	Daily
Delivery Method	Crystal Enterprise - ePortfolio
Format	Crystal Viewer (can be exported to other formats)

4.2.3.6.8 Report Layout

Institutional Card Status					
Lead Agency: King County Metro			Report Period: 12/1/2004 to 12/31/2004		
Total Number of Cards Issued					
University of Washington		Seattle	900		
Boeing		n/a	500		
Institution	Branch	Activity Status	CSN	Cardholder's First Name	Cardholder's Last Name
University of Washington   Seattle					
Loaded but not used					
			1102398455	Linda	Hernandez
			9873550060	Bill	Everett
Total Loaded but not used			2		
No Activity/Not Blocked					
			3202789155	Jill	Mayer
			8334621000	Anonymous	
Total No Activity/Not Blocked			2		
Blocked					
			3789556200	Scott	Emerson
Total Blocked			1		
Active					
			11122233344	Jennifer	Morrison
			11122233345	Amber	Smith
			11122233346	Michael	Meyers
			11122233347	Pauline	Downey
			11122233348	Elaine	Aulgur
			11122233349	Steve	Jones
			11122233350	Pat	Branch
			11122233351	Chris	Jeffries
			11122233352	Deborah	Michaels
			11122233353	Beth	Winkler
			11122233354	Deanna	Trosper

Figure 53: Example of Card Status Report

## Appendix C Business Views (Ad Hoc Reporting)

The following Business Views will be available for ad hoc reporting needs.

### C.1 Journey Data

This section describes the database business views associated with passenger journeys.

#### C.1.1 Billable Linked Trip

This view is for detail regarding Billable Linked Trips. Table 459 describes the Billable Linked Trip data elements.

Table 459: Billable Linked Trip Data

Name	Format	Description
BILLABLE_LINKED_TRIP_ID	NUMBER	Unique identifier for each billable linked trip (which is composed of separate unlinked trips)
CARD_TYPE_ID	STRING	The unique ID of the type of the card associated with the transaction.
CARD_TYPE_DESC	STRING	The description of the type of card associated with the transaction (e.g Desfire)
CSN	STRING	The unique identifier - Card Serial Number - of the physical card.
DEST_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency to which the transaction is (logically) directed, for the purposes of financial clearing.
DEST_PART_NAME	STRING	Name of the destination participant
DEVICE_ID	NUMBER	The unique identifier of the device. Will contain the value of the Vehicle ID during a device connection event
DEVICE_SSN	NUMBER	The number of the shift – relative to the device itself – that the device was operating under at the time of the transaction
EARNED_REVENUE	NUMBER	Revenue apportioned to this unlinked trip within the BLT for that product and period
INSTITUTION_ID	NUMBER	The unique identifier of the Institution associated with the card.
BRANCH_DESC	NUMBER	The description of the branch of the institution for this agreement.
INSTITUTION_ADDRESS1	STRING	First line of the institution's address
INSTITUTION_ADDRESS2	STRING	Second line of the institution's address
INSTITUTION_CITY	STRING	Institution City
INSTITUTION_NAME	STRING	The name of the institution
INSTITUTION_STATE	STRING	Institution State
INSTITUTION_ZIP	STRING	Institution ZIP
LEAD_AGENCY_ID	NUMBER	The Lead Agency associated with the Institutional agreement.

Name	Format	Description
LEAD_AGENCY_NAME	STRING	The name of the Lead Agency associated with the Institutional agreement.
LOCAL_DATE_TIME	DATETIME	The calendar date/time on which the transaction occurred
PRODUCT_ID	NUMBER	The ID of the type of product sold.
PRODUCT_CATEGORY_DESC	STRING	The description of the product category associated with a product
PRODUCT_CATEGORY_ID	NUMBER	The ID of the category for which the product is associated.
PRODUCT_DESC	STRING	The description of the participant's type of product sold
PRODUCT_ISSUER_ID	NUMBER	The ID of the Agency that issues the product that was sold.
PRODUCT_ISSUER_NAME	STRING	Name of the product issuer
PRODUCT_SERIAL_NUM	NUMBER	The unique identifier of a product on a card, within the scope of the card. The first product to be added to a card has Product Serial Number = 1, the second 2, etc.
PTSN	NUMBER	Product Transaction Sequence Number - the Product-specific sequence number for the transaction
SAM_ID	NUMBER	The unique identifier of the security module installed in a device
SERVICE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency on whose behalf the transaction was generated. This is generally the Agency that will participate in any financial clearing of the transaction.
SERVICE_PART_NAME	STRING	Name of the service participant
SOURCE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency that was responsible for generating the transaction/event. This is generally the owner of the device that generated the transaction/event.
SOURCE_PART_NAME	STRING	Name of the source participant
TXN_DESC	STRING	Description of the transaction such as Purse Sales, Purse Fare Payment, Manual Adjustment, etc.
UDSN	NUMBER	The Unique Device Sequence Number (UDSN) (the sequence number of the transaction/event, relative to the device that generated it)
UNLINKED_TRIP_WEIGHTING	NUMBER	Weighting of the unlinked trip, or the BLT within all associated BLTs for that product/period (if row is a BLT header instead of an unlinked trip within that BLT).

## C.1.2 Linked Trip

This view is for detail regarding Linked Trips. Table 460 describes the Linked Trip data elements.

**Table 460: Linked Trip Data**

Name	Format	Description
CARD_TYPE_ID	NUMBER	The unique ID of the type of the card associated with the transaction.
CARD_TYPE_DESC	STRING	The description of the type of card associated with the transaction (e.g Desfire)
CSN	STRING	The unique identifier - Card Serial Number - of the physical card.
DEST_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency to which the transaction is (logically) directed, for the purposes of financial clearing.
DEST_PART_NAME	STRING	Name of the destination participant
DEVICE_ID	NUMBER	The unique identifier of the device. Will contain the value of the Vehicle ID during a device connection event
DEVICE_SSN	NUMBER	The number of the shift – relative to the device itself – that the device was operating under at the time of the transaction
INSTITUTION_ID	NUMBER	The unique identifier of the Institution associated with the card.
BRANCH_DESC	NUMBER	The description of the branch of the institution for this agreement.
INSTITUTION_ADDRESS1	STRING	First line of the institution's address
INSTITUTION_ADDRESS2	STRING	Second line of the institution's address
INSTITUTION_CITY	STRING	Institution City
INSTITUTION_NAME	STRING	The name of the institution
INSTITUTION_STATE	STRING	Institution State
INSTITUTION_ZIP	STRING	Institution ZIP
LEAD_AGENCY_ID	NUMBER	The Lead Agency associated with the Institutional agreement.
LEAD_AGENCY_NAME	STRING	The name of the Lead Agency associated with the Institutional agreement.
LINKED_TRIP_ID	NUMBER	Unique identifier for each linked trip (which is composed of separate unlinked trips)
LOCAL_DATE_TIME	DATETIME	The calendar date/time on which the transaction occurred
PRODUCT_ID	NUMBER	The ID of the type of product sold.
PRODUCT_CATEGORY_DESC	STRING	The description of the product category associated with a product
PRODUCT_CATEGORY_ID	NUMBER	The ID of the category for which the product is associated.
PRODUCT_DESC	STRING	The description of the participant's type of product sold

Name	Format	Description
PRODUCT_ISSUER_ID	NUMBER	The ID of the Agency that issues the product that was sold.
PRODUCT_ISSUER_NAME	STRING	Name of the product issuer
PRODUCT_SERIAL_NUM	NUMBER	The unique identifier of a product on a card, within the scope of the card. The first product to be added to a card has Product Serial Number = 1, the second 2, etc.
PTSN	NUMBER	Product Transaction Sequence Number - the Product-specific sequence number for the transaction
SAM_ID	NUMBER	The unique identifier of the security module installed in a device
SERVICE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency on whose behalf the transaction was generated. This is generally the Agency that will participate in any financial clearing of the transaction.
SERVICE_PART_NAME	STRING	Name of the service participant
SOURCE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency that was responsible for generating the transaction/event. This is generally the owner of the device that generated the transaction/event.
SOURCE_PART_NAME	STRING	Name of the source participant
TXN_DESC	STRING	Description of the transaction such as Purse Sales, Purse Fare Payment, Manual Adjustment, etc.
UDSN	NUMBER	The Unique Device Sequence Number (UDSN) (the sequence number of the transaction/event, relative to the device that generated it)

## C.2.2 Fare Payment Transactions

This view is for transactions that record the use of a product on a card for the purposes of paying to take a trip. This includes single payment and entry/exit tagging.

Table 462 describes the fare payment transaction data elements.

**Table 462: Fare Payment Transaction Data**

Name	Format	Description
BUSINESS_DATE	DATETIME	The business date on which the transaction/event was generated.
CARD_TYPE_ID	NUMBER	The unique ID of the type of the card associated with the transaction.
CARD_TYPE_DESC	STRING	The description of the type of card associated with the transaction (e.g Desfire)
CASH_FARE_PAYABLE	NUMBER	The portion of the fare payable for the trip that was due to be paid in cash, as a result of insufficient funds in the purse to pay the fare (also known as the upgrade fare).
CCH_EXCEPTION	NUMBER	An indication of whether the transaction failed a clearing validation (1 = true, 0 = false)
CEFFV	NUMBER	Cash Equivalent Full Fare Value. The full fare the cardholder would expect to pay for the service if paying in cash. During the Automated Fare Collection (AFC) process, the fare actually paid is calculated as this fare less any applicable transfer fare credits, purse discounts, etc.
CSN	STRING	The unique identifier - Card Serial Number - of the physical card.
CURR_LEG_FARE_CREDIT	NUMBER	Purse Use/Rebate on Exit Transactions Only: The amount (from the current leg of the passenger journey) that may contribute toward the total transfer fare credit for subsequent legs of the passenger journey.

Name	Format	Description
DEST_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency to which the transaction is (logically) directed, for the purposes of financial clearing.
DEST_PART_NAME	STRING	Name of the destination participant
DESTINATION_LOCATION	NUMBER	Identifies the tag-off location of a transaction/non fare card event
DEVICE_ID	NUMBER	The unique identifier of the device. Will contain the value of the Vehicle ID during a device connection event
DEVICE_SSN	NUMBER	The number of the shift – relative to the device itself – that the device was operating under at the time of the transaction
EXCEPTION_LIST	STRING	Comma delimited list of validation failures found in the UD.
HOSTNAME	STRING	The unique identifier of the Data Acquisition Computer (DAC) that received this transaction from the device, for subsequent forwarding to an Agency BOC.
INSTITUTION_ID	NUMBER	The unique identifier of the Institution associated with the card.
BRANCH_DESC	NUMBER	The description of the branch of the institution for this agreement.
INSTITUTION_ADDRESS1	STRING	First line of the institution's address
INSTITUTION_ADDRESS2	STRING	Second line of the institution's address
INSTITUTION_CITY	STRING	Institution City
INSTITUTION_NAME	STRING	The name of the institution
INSTITUTION_STATE	STRING	Institution State
INSTITUTION_ZIP	STRING	Institution ZIP
LEAD_AGENCY_ID	NUMBER	The Lead Agency associated with the Institutional agreement.
LEAD_AGENCY_NAME	STRING	The name of the Lead Agency associated with the Institutional agreement.
ISS_EXCEPTION	NUMBER	An indication of whether the transaction failed an issuer validation (1 = true, 0 = false)
ISSUER_ABORT_REASON_ID	NUMBER	The unique identifier of the reason the transaction failed additional system integrity checking at the point the back office representation of the card, transit application, or product was being updated from the transaction.
ABORT_REASON_DESC	STRING	The description of the unique abort reason
LOCAL_DATE_TIME	DATETIME	The date associated with the journey
MULTIRIDE_CONT_VALUE	NUMBER	Transactions involving a multiride only: The cash equivalent full fare value of the multiride contribution to the fare.



Name	Format	Description
NUMBER_OF_PASSENGERS	NUMBER	The number of passengers associated with the fare payment transaction.
NUMBER_OF_ZONES	NUMBER	The number of zones to use for fare calculation. This is only populated for fare calculation and is provided in UD and business views for fare payment transactions only.
ORIGIN_LOCATION	NUMBER	Identifies the tag-on location of a transaction/non fare card event
PASS_CONT_VALUE	NUMBER	Transactions involving a pass only: The cash equivalent full fare value of the pass contribution to the fare.
PASSENGER_TYPE_ID	NUMBER	The unique identifier of the passenger type that was used associated with charging the fare for the trip.
PASSENGER_TYPE_DESC	STRING	The description of the passenger type
PASSENGER_VEHICLE_TYPE	NUMBER	The unique identifier of the passenger vehicle type (e.g., bicycle, motorcycle, etc.) for the transaction (WSF only). Set to zero if there is no vehicle.
PREV_LEG_LOCAL_DATE_TIME	DATETIME	The date/time of the leg immediately previous to this one that is part of the current passenger journey.
PRODUCT_ID	NUMBER	The ID of the type of product sold.
PRODUCT_CATEGORY_DESC	STRING	The description of the product category associated with a product
PRODUCT_CATEGORY_ID	NUMBER	The ID of the category for which the product is associated.
PRODUCT_DESC	STRING	The description of the participant's type of product sold
PRODUCT_ISSUER_ID	NUMBER	The ID of the Agency that issues the product that was sold.
PRODUCT_ISSUER_NAME	STRING	Name of the product issuer
PRODUCT_SERIAL_NUM	NUMBER	The unique identifier of a product on a card, within the scope of the card. The first product to be added to a card has Product Serial Number = 1, the second 2, etc.
PTSN	NUMBER	Product Transaction Sequence Number - the Product-specific sequence number for the transaction
PURSE_CONT_VALUE	NUMBER	Transactions involving a purse only: The cash equivalent full fare value of the purse contribution to the fare.
PURSE_REMAINING_VALUE	NUMBER	The purse value after completion of this transaction, if this transaction involved a purse.
RECONCILIATION_DATE	DATETIME	The reconciliation date for the transaction.
RECREDIT_REASON_ID	NUMBER	The unique identifier for the reason for recrediting the purse.

Name	Format	Description
RECREDIT_REASON_DESC	STRING	The description of the recredit reason.
REMAINING_RIDES	NUMBER	The number of rides remaining on the product after completion of this transaction, if this transaction involved a multiride.
ROUTE_DIRECTION	STRING	The direction of the route, either inbound or outbound.
ROUTE_DIRECTION_FROM	STRING	The route direction associated with the prior transaction (inbound or outbound)
ROUTE_ID	NUMBER	The route associated with the transaction/non fare card event.
ROUTE_ID_FROM	NUMBER	The route associated with the prior transaction.
SAM_ID	NUMBER	The unique identifier of the security module installed in a device
SERVICE_PART_ID_FROM	NUMBER	The unique identifier of the operator from which the transaction/non fare card event came from.
SERVICE_PART_NAME_FROM	STRING	Name of the service participant of the prior transaction
SERVICE_PART_ID_TO	NUMBER	The unique identifier of the operator on whose behalf the journey is associated.
SERVICE_PART_NAME_TO	STRING	Name of the service participant of the current transaction
SETTLEMENT_DATE	DAETIME	The settlement date for the transaction.
SOURCE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency that was responsible for generating the transaction/event. This is generally the owner of the device that generated the transaction/event.
SOURCE_PART_NAME	STRING	Name of the source participant
TOT_TXFER_FARE_CREDIT	NUMBER	The total amount of all fare credits (for the current and previous legs of the passenger journey) that may be used as a fare credit on subsequent legs of the passenger journey.
TRANSIT_OP_FROM	STRING	The operator of the transit vehicle from the prior transaction
TRANSIT_OP_TO	STRING	The operator of the transit vehicle of the current transaction
TXN_DESC	STRING	Description of the transaction such as Purse Sales, Purse Fare Payment, Manual Adjustment, etc.
TXN_VALUE	NUMBER	Transactions involving a purse only: The financial amount of the transaction.
UDSN	NUMBER	The Unique Device Sequence Number (UDSN) (the sequence number of the transaction/event, relative to the device that generated it)

Name	Format	Description
UPGRADE_TXN	NUMBER	"Purse Use" and "Purse Rebate on Exit" Transactions Only: Specifies whether the purse transaction is generated in conjunction with a pass or multiride transaction (i.e., whether the purse transaction is an upgrade fare for the pass/multiride), essentially paying the difference between the product face value and the calculated full fare.
VEHICLE_TYPE_ID	NUMBER	The unique identifier of the vehicle type (e.g., bus, truck, trailer, etc.) for the journey (WSF only). Set to zero for transactions where no passenger vehicle is involved.
VEHICLE_TYPE_DESC	STRING	The description of the vehicle type.

### C.2.3 Liability Write-Off

This view is for transactions that record the write-off of the product issuer's asset (if the net value of transactions is positive) or liability (if the net value of transactions is negative) as a counterpart to one or more product revalue and/or usage transactions. These transactions debit (if the net value of transactions is positive) or credit (if the net value of transactions is negative) the PCF. Table 463 describes the liability write-off data elements.

Table 463: Liability Write-Off Data

Name	Format	Description
CARD_TYPE_ID	STRING	The unique ID of the type of the card associated with the transaction.
CARD_TYPE_DESC	STRING	The description of the type of card associated with the transaction (e.g. Desfire)
CCH_EXCEPTION	NUMBER	An indication of whether the transaction failed a clearing validation (1 = true, 0 = false)
CSN	STRING	The unique identifier - Card Serial Number - of the physical card.
EXCEPTION_LIST	STRING	Comma delimited list of validation failures found in the UD.
INSTITUTION_ID	NUMBER	The unique identifier of the Institution associated with the card.
BRANCH_DESC	NUMBER	The description of the branch of the institution for this agreement.
INSTITUTION_ADDRESS1	STRING	First line of the institution's address
INSTITUTION_ADDRESS2	STRING	Second line of the institution's address
INSTITUTION_CITY	STRING	Institution City
INSTITUTION_NAME	STRING	The name of the institution
INSTITUTION_STATE	STRING	Institution State
INSTITUTION_ZIP	STRING	Institution ZIP
LEAD_AGENCY_ID	NUMBER	The Lead Agency associated with the Institutional agreement.

Name	Format	Description
LEAD_AGENCY_NAME	STRING	The name of the Lead Agency associated with the Institutional agreement.
ISS_EXCEPTION	NUMBER	An indication of whether the transaction failed an issuer validation (1 = true, 0 = false)
ISSUER_ABORT_REASON_ID	NUMBER	The unique identifier of the reason the transaction failed additional system integrity checking at the point the back office representation of the card, transit application, or product was being updated from the transaction.
ABORT_REASON_DESC	STRING	The description of the unique abort reason
PRODUCT_ID	NUMBER	The ID of the type of product sold.
PRODUCT_CATEGORY_DESC	STRING	The description of the product category associated with a product
PRODUCT_CATEGORY_ID	NUMBER	The ID of the category for which the product is associated.
PRODUCT_DESC	STRING	The description of the participant's type of product sold
PRODUCT_ISSUER_ID	NUMBER	The ID of the Agency that issues the product that was sold.
PRODUCT_ISSUER_NAME	STRING	Name of the product issuer
PRODUCT_SERIAL_NUM	NUMBER	The unique identifier of a product on a card, within the scope of the card. The first product to be added to a card has Product Serial Number = 1, the second 2, etc.
PTSN	NUMBER	Product Transaction Sequence Number - the Product-specific sequence number for the transaction
SETTLEMENT_DATE	DATETIME	The settlement date that the write-off transaction was effected.
WRITE_OFF_AMOUNT	NUMBER	The (signed) amount written off

## C.2.5 Recovered Revalue

This view is for recording the recovery of a transaction that involved the purchase of electronic value on a card, where the original transaction did not reach the Clearinghouse. Transactions that record the topping off of purse and multiride value, the purchase of a new pass or multiride product, and the extension of pass product validity may be recovered. Table 465 describes the recovered revalue data elements.

Table 465: Recovered Revalue Data

Name	Format	Description
BUSINESS_DATE	DATETIME	The business date on which the transaction/event was generated.
CARD_TYPE_ID	STRING	The unique ID of the type of the card associated with the transaction.
CARD_TYPE_DESC	STRING	The description of the type of card associated with the transaction (e.g Desfire)
CCH_EXCEPTION	NUMBER	An indication of whether the transaction failed a clearing validation (1 = true, 0 = false)
CSN	STRING	The unique identifier - Card Serial Number - of the physical card.
DEST_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency to which the transaction is (logically) directed, for the purposes of financial clearing.
DEST_PART_NAME	STRING	Name of the destination participant

Name	Format	Description
EXCEPTION_LIST	STRING	Comma delimited list of validation failures found in the UD
HOST_NAME	STRING	The unique identifier of the Data Acquisition Computer (DAC) that received this transaction from the device, for subsequent forwarding to an Agency BOC.
INSTITUTION_ID	NUMBER	The unique identifier of the Institution associated with the card.
BRANCH_DESC	NUMBER	The description of the branch of the institution for this agreement.
INSTITUTION_ADDRESS1	STRING	First line of the institution's address
INSTITUTION_ADDRESS2	STRING	Second line of the institution's address
INSTITUTION_CITY	STRING	Institution City
INSTITUTION_NAME	STRING	The name of the institution
INSTITUTION_STATE	STRING	Institution State
INSTITUTION_ZIP	STRING	Institution ZIP
LEAD_AGENCY_ID	NUMBER	The Lead Agency associated with the Institutional agreement.
LEAD_AGENCY_NAME	STRING	The name of the Lead Agency associated with the Institutional agreement.
ISS_EXCEPTION	NUMBER	An indication of whether the transaction failed an issuer validation (1 = true, 0 = false)
ISSUER_ABORT_REASON_ID	NUMBER	The unique identifier of the reason the transaction failed additional system integrity checking at the point the back office representation of the card, transit application, or product was being updated from the transaction.
ABORT_REASON_DESC	STRING	The description of the unique abort reason
LOCAL_DATE_TIME	DATETIME	The calendar date/time on which a transaction occurred
PAYMENT_METHOD_ID	NUMBER	The unique identifier of the payment method used to effect payment for the original purchase. Note that where multiple payment methods were used, the payment method will indicate "multiple."
PAYMENT_METHOD_DESC	STRING	The description of the method of payment (e.g., cash, check, credit card, purse, etc.).
PRODUCT_ID	NUMBER	The ID of the type of product sold.
PRODUCT_CATEGORY_DESC	STRING	The description of the product category associated with a product
PRODUCT_CATEGORY_ID	NUMBER	The ID of the category for which the product is associated.
PRODUCT_DESC	STRING	The description of the participant's type of product sold

Name	Format	Description
PRODUCT_ISSUER_ID	NUMBER	The ID of the Agency that issues the product that was sold.
PRODUCT_ISSUER_NAME	STRING	Name of the product issuer
PRODUCT_SERIAL_NUM	NUMBER	The unique identifier of a product on a card, within the scope of the card. The first product to be added to a card has Product Serial Number = 1, the second 2, etc.
PTSN	NUMBER	Product Transaction Sequence Number - the Product-specific sequence number for the transaction
PURSE_REMAINING_VALUE	NUMBER	Purse value only: The remaining purse value after completion of this transaction.
RECONCILIATION_DATE	DATETIME	The reconciliation date for the transaction.
REMAINING_RIDES	NUMBER	Multiride value only: The remaining number of rides after completion of this transaction.
SAM_ID	NUMBER	The unique identifier of the security module installed in a device
SERVICE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency on whose behalf the transaction was generated. This is generally the Agency that will participate in any financial clearing of the transaction.
SERVICE_PART_NAME	STRING	Name of the service participant
SETTLEMENT_DATE	DATETIME	The settlement date for the transaction.
SOURCE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency that was responsible for generating the transaction/event. This is generally the owner of the device that generated the transaction/event.
SOURCE_PART_NAME	STRING	Name of the source participant
TXN_AMOUNT	NUMBER	The total amount of the transaction.
TXN_DATE_TIME	DATETIME	The calendar date/time on which the transaction occurred.
TXN_DESC	STRING	Description of the transaction such as Purse Sales, Purse Fare Payment, Manual Adjustment, etc.
UDSN	NUMBER	The Unique Device Sequence Number (UDSN) (the sequence number of the transaction/event, relative to the device that generated it)
V_END_DATE_TIME	DATETIME	The time when the product's validity terminates (i.e., the product becomes invalid at the end of this time). If the product is a Floating Period Pass, this field will be zero.
V_START_DATE_TIME	DATETIME	The time when the product's validity commences (i.e., the product becomes valid at the start of this time). If the product is a Floating Period Pass, this field will be zero.

## C.2.6 Revalue Transactions

This view is for transactions that record the purchase of electronic value on a card. This includes topping off purse and multiride value, purchase of a new pass or multiride product, and the extension of pass product validity.

Table 466 describes the revalue transaction data elements.

Table 466: Revalue Transaction Data

Name	Format	Description
BUSINESS_DATE	DATETIME	The business date on which the transaction/event was generated.
CARD_TYPE_ID	NUMBER	The unique ID of the type of the card associated with the transaction.
CARD_TYPE_DESC	STRING	The description of the type of card associated with the transaction (e.g Desfire)
CCH_EXCEPTION	NUMBER	An indication of whether the transaction failed a clearing validation (1 = true, 0 = false)
CSN	STRING	The unique identifier - Card Serial Number - of the physical card.
DEST_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency to which the transaction is (logically) directed, for the purposes of financial clearing.
DEST_PART_NAME	STRING	Name of the destination participant
DEVICE_ID	NUMBER	The unique identifier of the device. Will contain the value of the Vehicle ID during a device connection event
DEVICE_SSN	NUMBER	The number of the shift – relative to the device itself – that the device was operating under at the time of the transaction
EFT_SETTLEMENT_DATE	DATETIME	Credit card payment used only: The settlement date.
EFT_TERMINAL_ID	STRING	Credit card payment used only: The terminal ID.
EFT_TRACE_NUMBER	STRING	Credit card payment used only: The trace number.
EXCEPTION_LIST	STRING	Comma delimited list of validation failures found in the UD
HOST_NAME	STRING	The unique identifier of the Data Acquisition Computer (DAC) that received this transaction from the device, for subsequent forwarding to an Agency BOC.
INSTITUTION_ID	NUMBER	The unique identifier of the Institution associated with the card.
BRANCH_DESC	NUMBER	The description of the branch of the institution for this agreement.
INSTITUTION_ADDRESS1	STRING	First line of the institution's address
INSTITUTION_ADDRESS2	STRING	Second line of the institution's address
INSTITUTION_CITY	STRING	Institution City



Name	Format	Description
INSTITUTION_NAME	STRING	The name of the institution
INSTITUTION_STATE	STRING	Institution State
INSTITUTION_ZIP	STRING	Institution ZIP
LEAD_AGENCY_ID	NUMBER	The Lead Agency associated with the Institutional agreement.
LEAD_AGENCY_NAME	STRING	The name of the Lead Agency associated with the Institutional agreement.
ISS_EXCEPTION	NUMBER	An indication of whether the transaction failed an issuer validation (1 = true, 0 = false)
ISSUER_ABORT_REASON_ID	NUMBER	The unique identifier of the reason the transaction failed additional system integrity checking at the point the back office representation of the card, transit application, or product was being updated from the transaction.
ABORT_REASON_DESC	STRING	The description of the unique abort reason
LOCAL_DATE_TIME	DATETIME	The local date/time the revalue transaction took place.
NUMBER_OF_PAYMENTS	NUMBER	The number of methods used to effect payment for the purchase.
PAYMENT_METHOD0	NUMBER	The unique identifier of Payment Method 1
PAYMENT_METHOD0_DESC	STRING	The description of the method of payment 1 (e.g., cash, check, credit card, purse, etc.).
PAYMENT_METHOD1	NUMBER	If more than one method of payment was used to effect the transaction: The unique identifier of Payment Method 2
PAYMENT_METHOD1_DESC	STRING	The description of the method of payment 2 (e.g., cash, check, credit card, purse, etc.).
PAYMENT_METHOD2	NUMBER	If more than two methods of payment were used to effect the transaction: The unique identifier of Payment Method 3
PAYMENT_METHOD2_DESC	STRING	The description of the method of payment 3 (e.g., cash, check, credit card, purse, etc.).
PAYMENT_METHOD3	NUMBER	If more than three methods of payment were used to effect the transaction: The unique identifier of Payment Method 4
PAYMENT_METHOD3_DESC	STRING	The description of the method of payment 4 (e.g., cash, check, credit card, purse, etc.).
PAYMENT_VALUE0	NUMBER	The amount paid using Payment Method 1.
PAYMENT_VALUE1	NUMBER	The amount paid using Payment Method 2.
PAYMENT_VALUE2	NUMBER	The amount paid using Payment Method 3.
PAYMENT_VALUE3	NUMBER	The amount paid using Payment Method 4.
PREPAYMENT_PREF	NUMBER	Prepayment (credit card or check) used only: The prepayment reference number.
PRODUCT_ID	NUMBER	The ID of the type of product sold.

Name	Format	Description
PRODUCT_CATEGORY_DESC	STRING	The description of the product category associated with a product
PRODUCT_CATEGORY_ID	NUMBER	The ID of the category for which the product is associated.
PRODUCT_DESC	STRING	The description of the participant's type of product sold
PRODUCT_ISSUER_ID	NUMBER	The ID of the Agency that issues the product that was sold.
PRODUCT_ISSUER_NAME	STRING	Name of the product issuer
PRODUCT_SERIAL_NUM	NUMBER	The unique identifier of a product on a card, within the scope of the card. The first product to be added to a card has Product Serial Number = 1, the second 2, etc.
PTSN	NUMBER	Product Transaction Sequence Number - the Product-specific sequence number for the transaction
PURSE_ID	NUMBER	Purse payment used only: The unique ID of the purse.
PURSE_REMAINING_VALUE	NUMBER	Purse value only: The remaining purse value after completion of this transaction.
RECONCILIATION_DATE	DATETIME	The reconciliation date for the transaction.
REMAINING_RIDES	NUMBER	Multiride value only: The remaining number of rides after completion of this transaction.
REVERSED_UDSN	NUMBER	Reversal transactions only: The UDSN of the original transaction being reversed.
SAM_ID	NUMBER	The unique identifier of the security module installed in a device
SERVICE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency on whose behalf the transaction was generated. This is generally the Agency that will participate in any financial clearing of the transaction.
SERVICE_PART_NAME	STRING	Name of the service participant
SETTLEMENT_DATE	DATETIME	The settlement date for the transaction.
SOURCE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency that was responsible for generating the transaction/event. This is generally the owner of the device that generated the transaction/event.
SOURCE_PART_NAME	STRING	Name of the source participant
TXN_AMOUNT	NUMBER	The total amount of the transaction.
TXN_DATE_TIME	DATETIME	The calendar date/time on which the transaction occurred.

Name	Format	Description
TXN_DESC	STRING	Description of the transaction such as Purse Sales, Purse Fare Payment, Manual Adjustment, etc.
UDSN	NUMBER	The Unique Device Sequence Number (UDSN) (the sequence number of the transaction/event, relative to the device that generated it)
V_END_DATE_TIME	DATETIME	The time when the product's validity terminates (i.e., the product becomes invalid at the end of this time). If the product is a Floating Period Pass, this field will be zero.
V_START_DATE_TIME	DATETIME	The time when the product's validity commences (i.e., the product becomes valid at the start of this time). If the product is a Floating Period Pass, this field will be zero.
VIA_ACTIONLIST	NUMBER	Indicates if the addition of electronic value was effected via actionlisting (1 = true, 0 = false)

## C.2.9 Transaction Summary

This view is for transaction summaries, used as a basis for financial clearing. Table 469 describes the transaction summary data elements.

**Table 469: Transaction Summary Data**

Name	Format	Description
DEST_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency to which the transactions in the summary are (logically) directed, for the purposes of financial clearing.
DEST_PART_NAME	STRING	Name of the destination participant
DEVICE_ID	NUMBER	The unique ID of the device that generated the transactions in the summary.
GFS_VALUE	NUMBER	The net value of transactions in the summary that – after the validation process – have been deemed good for settlement (GFS).
GFS_VOLUME	NUMBER	The net volume of transactions in the summary that – after the validation process – have been deemed GFS.
INSTITUTION_ID	NUMBER	Will contain an ID value if the products associated with the transactions in the summary are Institutional products.
BRANCH_DESC	NUMBER	The description of the branch of the institution for this agreement.
INSTITUTION_ADDRESS1	STRING	First line of the institution's address.
INSTITUTION_ADDRESS2	STRING	Second line of the institution's address.
INSTITUTION_CITY	STRING	Institution City
INSTITUTION_NAME	STRING	The name of the institution
INSTITUTION_STATE	STRING	Institution State
INSTITUTION_ZIP	STRING	Institution ZIP
LEAD_AGENCY_ID	NUMBER	The Lead Agency associated with the Institutional agreement.
MGFS_VALUE	NUMBER	The net value of transactions in the summary that – after the validation process – have been deemed not good for settlement (NGFS).
NGFS_VOLUME	NUMBER	The net volume of transactions in the summary that – after the validation process – have been deemed NGFS.
PAYMENT_METHOD_ID	NUMBER	The unique identifier of the method of payment on the transactions in the summary.
PAYMENT_METHOD_DESC	STRING	The description of the method of payment (e.g., cash, check, credit card, purse, etc.).
PRODUCT_ID	NUMBER	The ID of the type of product sold.
PRODUCT_CATEGORY_DESC	STRING	The description of the product category associated with a product.
PRODUCT_CATEGORY_ID	NUMBER	The ID of the category for which the product is associated.

Name	Format	Description
PRODUCT_DESC	STRING	The description of the participant's type of product sold.
PRODUCT_ISSUER_ID	NUMBER	The ID of the Agency that issues the product that was sold.
PRODUCT_ISSUER_NAME	STRING	Name of the product issuer.
RECON_DATE	DATETIME	The reconciliation date of the transactions in the summary.
SERVICE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency on whose behalf the transactions in the summary were generated.
SERVICE_PART_NAME	STRING	Name of the service participant.
SETTLEMENT_DATE	DATETIME	The settlement date of the transactions in the summary.
SOURCE_PARTICIPANT_ID	NUMBER	The unique identifier of the Agency that was responsible for generating the transactions in the summary. This is generally the owner of the device that generated the transactions.
SOURCE_PART_NAME	STRING	Name of the source participant
TXN_DESC	STRING	Description of the transaction such as Purse Sales, Purse Fare Payment, Manual Adjustment, etc.

### C.4.4 Card Type Lookup

This view is for mapping unique identifiers to the description of a card type. Table 481 describes the card type lookup data elements.

Table 481: Card Type Lookup Data

Name	Format	Description
CARD_TYPE_DESC	STRING	The description of the type of card (e.g., Desfire)
CARD_TYPE_ID	NUMBER	The unique identifier of the card type

### C.4.5 Cardholder Lookup

This view is for mapping unique identifiers to the description of cardholders. Table 482 describes the cardholder lookup data elements.

Table 482: Cardholder Lookup Data

Name	Format	Description
CARDHOLDER_ADDRESS1	STRING	First line of the cardholder's address. Will be BLANK if an anonymous card.
CARDHOLDER_ADDRESS2	STRING	Second line of the cardholder's address. Will be BLANK if an anonymous card.
CARDHOLDER_CITY	STRING	Cardholder City. Will be BLANK if an anonymous card.
CARDHOLDER_FIRSTNAME	STRING	The first name of the cardholder linked to this card. Will say UNLINKED if it is an anonymous card.
CARDHOLDER_ID	NUMBER	The unique Identifier for a cardholder
CARDHOLDER_LASTNAME	STRING	The last name of the cardholder linked to this card. Will say UNLINKED if it is an anonymous card.
CARDHOLDER_STATE	STRING	Cardholder State. Will be BLANK if an anonymous card.
CARDHOLDER_ZIP	STRING	Cardholder ZIP. Will be BLANK if an anonymous card.

### C.4.6 Claim Status Lookup

This view is for mapping unique identifiers to the description of claim status. Table 483 describes the claim status lookup data elements.

Table 483: Claim Status Lookup Data

Name	Format	Description
CLAIM_STATUS_DESC	STRING	The description of the claim status (e.g., Pending)
CLAIM_STATUS_ID	NUMBER	The unique identifier associated with the claim status

### C.4.9 Logoff Method Lookup

This view is for mapping LogoffMethod unique identifiers to the description of the logoff method. Table 486 describes the logoff method data elements.

**Table 486: Logoff Method Data**

Name	Format	Description
LOGOFF_METHOD_ID	NUMBER	The unique identifier of a method by which an operator was logged off.
LOGOFF_METHOD_DESC	STRING	The description of the logoff method.

## C.4.12 Participant Lookup

This view is for mapping all participants within the RFCS using participant-unique identifiers to the name of the participant. These participants can be Service Participants, Source Participants, Lead Agency, Product Issuers, etc. Table 489 describes the participant data elements.

**Table 489: Participant Name Data**

Name	Format	Description
PARTICIPANT_ID	NUMBER	ID of the participant
PARTICIPANT_NAME	STRING	Name of the participant



### C.4.13 Passenger Type Lookup

This view is for mapping PassengerType unique identifiers to the description of the passenger type. Table 490 describes the passenger type data elements.

Table 490: Passenger Type Data

Name	Format	Description
PASSENGER_TYPE_ID	NUMBER	ID of the passenger type
PASSENGER_TYPE_DESC	STRING	The description of the passenger type

### C.4.14 Payment Method Lookup

This view is for mapping PaymentMethod unique identifiers to the description of the payment method. Table 491 describes the payment method data elements.

Table 491: Payment Method Data

Name	Format	Description
PAYMENT_METHOD_ID	NUMBER	The ID of the method by which product sales were affected.
PAYMENT_METHOD_DESC	STRING	The description of the method by which product sales were affected.

### C.4.15 Product Type Lookup

This view is for mapping ProductType unique identifiers to the name of the product. Table 492 describes the product type data elements.

Table 492: Product Type Data

Name	Format	Description
PARTICIPANT_ID	NUMBER	The ID of the Agency that issues the product that was sold.
PRODUCT_CATEGORY_DESC	STRING	The description of the product category associated with a product
PRODUCT_CATEGORY_ID	NUMBER	The ID of the category for which the product is associated.
PRODUCT_DESC	STRING	The description of the participant's type of product sold
PRODUCT_ID	NUMBER	The ID of the product type that was sold.

### C.4.16 Recredit Reason Lookup

This view is for mapping RecreditReason unique identifiers to the description of the recredit reason. Table 493 describes the recredit reason data elements.

Table 493: Recredit Reason Data

Name	Format	Description
REREDIT_REASON_ID	NUMBER	The unique identifier of a recredit reason.
REREDIT_REASON_DESC	STRING	The description of the recredit reason.

## C.4.17 Transaction Description Lookup

This view is for mapping TxnType and TxnSubtype unique identifiers to a text description of the transaction. Table 494 describes the transaction description data elements.

Table 494: Transaction Name Data

Name	Format	Description
TXN_DESC	STRING	Unique ID of the type of transaction
TXN_SUBTYPE	NUMBER	Unique ID of the sub-type of transaction
TXN_TYPE	NUMBER	Description of the transaction such as Purse Sales, Purse Fare Payment, Manual Adjustment, etc.

## C.4.18 Vehicle Type Lookup

This view is for mapping VehicleType unique identifiers to the description of the vehicle type. Table 495 describes the vehicle type data elements.

Table 495: Vehicle Type Data

Name	Format	Description
VEHICLE_TYPE_ID	NUMBER	The unique identifier of a vehicle type.
VEHICLE_TYPE_DESC	STRING	The description of the vehicle type.