



# **PostilionPRM Interface Specification**

Postilion®

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## Section 1: Retail Payments Risk Analysis

The following table summarizes the mapping between the ISO 8583 transaction format used by Transaction Manager and PIM. Note that only PIM fields populated from ISO 8583 fields are listed below. If a PIM or ISO 8583 field is not listed, it is not currently mapped.

Note that the PIM XSD's define some fields with default values, particularly versioning fields. These fields will not appear in the mappings listed below unless PostilionPRM explicitly sets a value.

Note that field names are case sensitive.

### CardInitiatedTrnRiskAnalyzeRq

This object is the root object containing the details of the transaction to be sent to PRM.

PIM Field	Description
createdDate	Set to the date the object was created.
requestUID	Active/Active Server ID configured in the PRM Interface user parameters (ans..4) + Transaction number from RTFW field 127.2 (Switch Key). Realtime will optionally send in its own ServerID in the Switch Key (field 127.2 ) along with the Realtime transaction number. If the ServerId of the PRM Interface user parameter is configured, then the ServerId in the Realtime switch key is ignored and only Realtime transaction number is used. If the ServerId of the PRM Interface user parameter is not configured and Realtime is configured to send in a ServerID, then the ServerID sent by the Realtime is used. The Realtime transaction number in the Switch key is used as usual.
cardInitiatedTrnRiskAnalyzeType[]	Contains a list of CardInitiatedTrnRiskAnalyzeType objects. PostilionPRM will populate the list with one object per message received from TM. See next table for mapping details.

## CardInitiatedTrnRiskAnalyzeRq.cardInitiatedTrnRiskAnalyzeType[row]

This object contains the details of the transaction that will be notified to PRM. Note that this object is **contained within** the CardInitiatedTrnRiskAnalyzeRq object described above i.e. it is found in CardInitiatedTrnRiskAnalyzeRq.CardInitiatedTrnRiskAnalyzeType[0]. Where needed, '[x]' is used to indicate that the list index is unspecified as it could vary.

PIM Field	Description	NRT/RT
acquirerIdent[0].otherIdent.ident	Set to the Acquiring Institution ID configured by user parameter, <b>if</b> the transaction is identified as either Acquiring or On-Us, otherwise populate from field 32 (if set).	Both
acquirerIdent[0].otherIdent.schema.proprietaryCode	Set to "POST" when otherIdent.ident is set.	
additionalAmounts[x].amount.amount	If F54 is present and a transaction currency is set in F49, this amount is set to the cash amount type of F54 in the transaction currency.	Both
additionalAmounts[x].type.proprietaryCode	If the amount.amount field is populated, set to amount type "02" (Cash in transaction currency).	Both
additionalAmounts[x].amount.currency	If the amount.amount field is populated, set to F49, expressed as an alpha-currency code.	Both
additionalAmounts[x].amount.amount	<p>If F54 is present and a settlement currency is set in F50 then this amount is set to the cash amount type of F54 in the settlement currency.</p> <p>If F54 is present and a settlement currency is <b>not</b> set in F50 then this amount is set to the cash amount type of F54 in the transaction currency (from F49).</p>	Both

PIM Field	Description	NRT/RT
additionalAmounts[x].type.proprietaryCode	If the amount.amount field is populated, set to amount type "01" (Cash in settlement currency).	Both
additionalAmounts[x].amount.currency	<p>If the amount.amount field is populated and F50 is set then this currency is set to the value of F50, expressed as an alpha-currency code.</p> <p>If the amount.amount field is populated and F50 is <b>not</b> set then this currency is set to the value of F49, expressed as an alpha-currency code.</p>	Both
adjustedAmount.amount	Field 95 position 1-12, converted into major denomination according to the decimal position of the currency in adjustedAmount.currency.	NRT
adjustedAmount.currency	F49, expressed as an alpha-currency code.	
affectedAccount.accountIdent.otherIdent.ident	<p>Set to F102 when the transaction type is a debit, inquiry, transfer, or 50, 52 or 54.</p> <p>Set to F103 if the transaction type is a credit, or 51 or 53.</p> <p>Otherwise not set.</p>	Both
affectedAccount.accountIdent.otherIdent.identType.proprietary	Set to "POST" when affectedAccount.accountIdent.otherIdent.ident is set.	Both
dynamicAttributes["CreditorAccountIdent"]	Set to F103 if the transaction type is a transfer, 52 or 54.	Both
affectedAccount.accountType.otherType.schema	Set to "POST" when affectedAccount.accountType.otherType.code is set.	Both

PIM Field	Description	NRT/RT
affectedAccount.accountType.otherType.code	<p>Set to the From Account Type (position 3-4 of F3) when the transaction type is a debit, inquiry, transfer or 50, 52, 54.</p> <p>Set to the To Account Type (position 5-6 of F3) when the transaction type is a credit or 51 or 53.</p> <p>Otherwise not set.</p>	Both
dynamicAttributes['CreditorAccountType']	Set to the To Account Type (position 5-6 of F3) when the transaction type is a transfer or 52 or 54.	Both
amountConversionRate	Copied from F9 if present. Otherwise, if F49 is set and F50 is not, set to '1'	Both
card.cardIdent.pAN	Copied from F2 if present.	Both
card.cardIdent.expirationDate	<p>If F14 is present but the expiry date provided is not valid, set to '4912'.</p> <p>If F14 is present and the expiry date provided is valid, copy from F14 unchanged.</p> <p>If F14 is not present, will not be set.</p>	Both
card.cardIdent.cardSeqNum	Copied from F23 if F2 is present.	Both
card.issuerIdent[0].otherIssuerIdent.ident	Set to the Issuer Institution Id retrieved from PostCard for the issuer linked to the original sink node, <b>if</b> the transaction is identified as Issuing or On-us, otherwise not set.	Both



PIM Field	Description	NRT/RT
card.issuerIdent[0].otherIssuerIdent.schema.proprietary	Set to "POST" when card.issuerIdent[0].otherIssuerIdent.ident is set.	
card.issuerIdent[0].iinident	Set to the first 6 digits of the PAN, if F2 is present.	Both
dynamicAttributes['PAYMETHOD_CARD_PRESENT']	Set to F123 position 6. n1  0 Card not present 1 Card present	Both
dynamicAttributes['CARD_TYPE']	Set to F127.22.RISK_CARD_TYPE if present. If not present, this value is determined from the mapping in the risk_card_type table. Valid values for this field include: (format: a1) A = AMEX; B = BitCoin C = Carte Blanche D = Discover E = Diners Club F = iDeal G = Gift Card H = ACH I = Apple Pay J = JCB K = Google Checkout L = Bill Me Later M = MasterCard N = Giropay O = PayPal	Both

PIM Field	Description	NRT/RT
	<p>P = Private Label  S = Sofort  U = Other  V = Visa  Y = Alipay</p> <p><b>Note:</b> this is a <b>mandatory</b> field when integrating PostilionPRM with <b>ReD Shield</b>.</p> <p>Source field location customizable through generic mapping rule 4. See the PostilionPRM User Guide for more information.</p> <p>See the <b>Card Type Mapper</b> section in the PRM User Guide for more information on configuring this field.</p>	
dynamicAttributes['TOTALS_GROUP']	Set to F127.3 position 37-48 if present. (format: ans12)	Both
card.cardholder.customerIdent.ident	Set to F127.36 if present.	Both
card.cardholder.customerIdent.schema.proprietary	Set to "POST" when card.cardholder.customerIdent.ident is set.	
dynamicAttributes['ACCOUNT_TYPE']	<p>Set to F127.22.RISK_ACCOUNT_TYPE, which should be set to one of the following values: (format: a1)  C = checking;  S = savings;</p> <p><b>Note:</b> when integrating with <b>ReD Shield</b>, this value is required be set when the</p>	

PIM Field	Description	NRT/RT
	<p>PAYMETHOD_CARD_HOLDER_PRESENT value is set to 'A.</p> <p>Source field location customizable through generic mapping rule 15. See the PostilionPRM User Guide for more information.</p>	
dynamicAttributes['PAYMETHOD_CARD_HOLDER_PRESENT']	<p>Set to 127.22.RISK_PAYMETHOD_CARD_HOLDER_PRESENT if available, otherwise derived from F123 position 5, set to one of the following value: (format: a1) P = card present – if F123 position 5 is a '0'; V = card number provided by phone - if F123 position 5 is a '3'; or O = card number provided online – for any other value of F123 position 5.</p> <p><b>Note:</b> this is a <b>mandatory</b> field when integrating PostilionPRM with <b>ReD Shield</b>.</p> <p>Source field location customizable through generic mapping rule 8. See the PostilionPRM User Guide for more information.</p>	Both
cardTrnIdent.tranDateTime	Set to the combination of F13 and F12. Expressed in UTC.	Both
dynamicAttributes['ORDER_TZ']	Order time zone offset from GMT. (format: n..6)	Both

PIM Field	Description	NRT/RT
	Calculated by comparing F7 to F12 and F13. The offset is calculated as a double value between 0.00 and +-14.00 presented in multiples of 0.25, e.g. -3.5 represents UTC-03:30 and 12.75 represents UTC+12:45.	
cardTrnIdent.trnIdent	Set to the message switch key (F127.2).	Both
cardTrnIdent.referenceNum	Copied from F37.	Both
context.paymentContext.cardDataEntryMode	Copied from F22.	Both
context.paymentContext.cVVPresentInd	If 127.10 is present (i.e. requests), set to 1. Else, if F127.38 is present, set to position 1 of F127.38. Else, if F127.27 is present, and its value is one of M,N,P or U, set cVVPresentInd to 1 - CVV2 value present. Otherwise do not set.	Both
context.paymentContext.pOSCondition	Copied from F25.	Both
context.paymentContext.pINPresentInd	Set to True when the cardholder authentication method (F123 position 8) is set to 1 – PIN, otherwise set to False.	Both
context.paymentContext.eComSecurityType	Mapped from the terminal type in F123 (positions 14-15). See <a href="#">context.paymentContext.eComSecurityType</a> .	Both
creditDebitCode	Set to "CREDIT" if the Transaction type (F3 position 1-2) is a credit (20-29), 51 or 53.	Both

PIM Field	Description	NRT/RT
	<p>Set to "DEBIT" if the transaction type is a debit (0-19) or 50.</p> <p>For all other transaction types, not set (i.e. null).</p>	
dynamicAttributes['CustTranDate']	Set to F7 converted to a string in yyyyMMddHHmmss format. This represents a timestamp in UTC.	Both
dynamicAttributes['EMVUsrFlr']	See <a href="#">dynamicAttributes['EMVUsrFlr']</a> .	Both
dynamicAttributes['TERM_CNTR_NUM']	Set to a 3-digit numeric representation of the country code contained in F43. (format: n3)	Both
dynamicAttributes['Transaction_Currency_Code']	Set to F49, expressed as a numeric currency code.	Both

PIM Field	Description	NRT/RT
dynamicAttributes['Settlement_Currency_Code']	Set to F50 if present, otherwise set to F49. Expressed as a numeric currency code.	Both
dynamicAttributes['AcptInstId']	Set to F42.	Both
dynamicAttributes['ProdInd']	Set to the terminal type in F123 (positions 14-15).	Both
dynamicAttributes['TrnDateTime']	Set to a combination of F12 and F13 converted to a string in the 'yyyy-MM-dd HH:mm:ss' format. This represents a timestamp in the timezone of the card acceptor for the transaction.	Both

PIM Field	Description	NRT/RT
dynamicAttributes['SettlementDate']	Set to F15 converted to a string in the 'yyyy-MM-dd' format.	Both
dynamicAttributes['PostilionExtendedTranType']	Set to F127.33, if present.	Both
equivalentAdjustedAmount.amount	<p>If F50 is present, the settlement amount from F95 (position 13-24). Otherwise, set to F95 (position 1-12).</p> <p>If set, the value from F95 is converted into major denomination according to the decimal position of the currency in equivalentAdjustedAmount.currency.</p>	NRT
equivalentAdjustedAmount.currency	F50 expressed as an alpha-currency code if present, otherwise set to F49 expressed as an alpha-currency code.	
equivalentTotalAmount.amount	The value from F5 if present, otherwise set to the value from F4.	Both

PIM Field	Description	NRT/RT
	If set, the value is converted into major denomination according to the decimal position of the currency in equivalentTotalAmount.currency.	
equivalentTotalAmount.currency	F50 expressed as an alpha-currency code if present, otherwise set to F49 expressed as an alpha-currency code.	Both
merchant.merchantIdent	Copied from F42.	Both
merchantCategoryCode	Copied from F18.	Both
dynamicAttributes['MERCHANT_ZIP_CD']	<p>Set to F127.22.RISK_MERCHANT_ZIP_CD if available. (format: ans..10)</p> <p><b>Note:</b> this is a <b>mandatory</b> field when integrating PostilionPRM with <b>ReD Shield</b> and a default value should be set in the generic mapper for when this value is not available in structured data.</p> <p>Postal\ZIP code of the Merchant's corporate offices.</p> <p>Source field location customizable through generic mapping rule 6. See the PostilionPRM User Guide for more information.</p>	Both
dynamicAttributes['MERCHANT_COUNTRY']	<p>Set to F127.22.RISK_MERCHANT_COUNTRY if available. (format: n3)</p>	Both



PIM Field	Description	NRT/RT
	<p><b>Note:</b> this is a <b>mandatory</b> field when integrating PostilionPRM with <b>ReD Shield</b> and a default value should be set in the generic mapper for when this value is not available in structured data.</p> <p>The Merchant's ISO country code, corresponding to the location of the Merchant's corporation.</p> <p>Source field location customizable through generic mapping rule 7. See the PostilionPRM User Guide for more information.</p>	
messageType	<p>For request types, populate with the message type as-is.</p> <p>If the control node is configured for active/active <b>and</b> F127.22.ActiveActiveData. OriginalSourceMessageType is available <b>and</b> the interchange parameter <b>NrtUseReqMsgType</b> is set to '1' for PostilionPRM (see the <i>PostilionPRM User Guide</i> for more information), set the message type as follows:</p> <ul style="list-style-type: none"> <li>• 0x10 if the 9x20 was generated from an 0x00.</li> <li>• 0x20 if the 9x20 was generated from an 0x20.</li> </ul> <p>However, if the control node is <b>not</b> configured for active/active <b>or</b> F127.22.ActiveActiveData. OriginalSourceMessageType is absent <b>or</b> the interchange parameter <b>UseOrigMsgType</b> is not set or set to '0', then set the message type of the control</p>	Both

PIM Field	Description	NRT/RT
	node notification sent to PostilionPRM, with the first digit converted from 9 to 0 (i.e. 9xxx is converted to 0xxx).	
reversal	Set to true if the control node notification is a 9420 or 9421, false otherwise.	NRT
serviceRestrictionCode	Copied from F40 if present.	Both
settlementDate	Copied from F15. Expressed in UTC.	Both
status[0].code	Set to "Route" if F39 is present.	NRT
status[0].statusReason.proprietary	A mapped value based on F39. If no mapping is found, set to 00 – No Error. See <a href="#">status[0].statusReason.proprietary ('Route')</a> for mapping details.	
status[1].code	Copied from F39	NRT
status[1].schema.proprietary	Set to "PostilionResponseCode"	
status[2].code	Set to "AuthUnAuth" if F127.6 is present.	NRT
status[2].statusReason.proprietary	Set to "A" if the Authorization Reason (F127.6 position 1) is 1 – The transaction was authorized by the card issuer. Set to "U" for any other value of F127.6. Not set if F127.6 is not present.	
terminal.systemIdent.ident	Set to F42 concatenated with F41.	Both

PIM Field	Description	NRT/RT
terminal.address.city	Copied from the city subfield of F43 (position 24-36), if F43 does <b>not</b> start with "SV", otherwise not set.	Both
terminal.address.stateProvince.code	Copied from the state or region subfield of F43 (position 37-38), if F43 does <b>not</b> start with "SV", otherwise not set.	Both
terminal.address.countryCode	Copied from the country subfield of F43 (position 39-40), if F43 does <b>not</b> start with "SV", otherwise not set.	Both
terminal.address.addressLine[0]	Copied from the location information subfield of F43 (position 1-23), if F43 does <b>not</b> start with "SV", otherwise not set.	Both
terminal.address.postalCode	Copied from F127.13 (positions 6-14) if present and F43 does <b>not</b> start with "SV", otherwise not set.	Both
terminal.name	Set to "VISA CASH LOAD" if F43 starts with "SV", otherwise copied from the location information subfield of F43 (position 1-23). If field 127.12 is set and field 18 is not equal to "6011" then set this field to 127.12 (Terminal owner).	Both
terminal.forwardingInstitutionIdent.otherIdent.ident	Copied from F33 if present, otherwise not set.	Both
terminal.forwardingInstitutionIdent.otherIdent.schema.proprietary	Set to "POST" if terminal.forwardingInstitutionIdent.otherIdent.ident is set, otherwise not set.	
terminal.terminalCapability.eMVReadingCapability	Copied from the IccRequest 'TerminalType' subfield in F127.25.	

PIM Field	Description	NRT/RT
terminal.terminalCapability.magStripe2CaptureInd	Set to True if the Card Data Input Capability subfield of F123 (position 1) is 2, 5, 7, 8, 9, A or B, otherwise set to False.	Both
totalAmount.amount	The value from F4 if present, otherwise not set. If set, the value from F4 is converted into major denomination according to the decimal position of the currency in totalAmount.currency.	Both
totalAmount.currency	F49 expressed as an alpha-currency code if present, otherwise not set.	Both
transactionType	Copied from the Transaction Type subfield of F3 (position 1-2).	Both
trnSourceType.Code	Set to the Terminal Type subfield of F123 (position 14-15).	Both
trnVerificationResult.authResultCode.propritetaryCode	Copied from F38 if present, otherwise not set.	NRT
trnVerificationResult.auth3DsecureResultInd	Set to True if F127.30 is 2, 3, 8, A, or B – CAVV Passed Validation, otherwise set to False.	Both
dynamicAttributes['3D_SECURE_XID']	<p>Set to F127.29 positions 1-20 if present. (format: an20)</p> <p>Transaction Identifier (XID)</p> <p>A cryptographic value containing a unique tracking number generated by the merchant server to identify the transaction (prevents resubmission/replay).</p>	RT
trnVerificationResult.cardholderAddressVrfy	Copied from F127.16 if present.	Both

PIM Field	Description	NRT/RT
dynamicAttributes['BILL_ZIP_CD']	Set to F127.15 positions 1-9 if present. (format: n9)  The alphanumeric postal/ZIP code of the cardholder.	RT
dynamicAttributes['BILL_STREET']	Set to F127.15 positions 10-29 if present. (format: n20)  The alphanumeric cardholder address.	RT
trnVerificationResult.authReasonCode	Copied from the Reason subfield of F127.6 (position 1) if present, otherwise not set.	NRT
trnVerificationResult.authTypeCode	Copied from the Type subfield of F127.6 (position 2) if present, otherwise not set.	NRT
trnVerificationResult.authSource	Mapped based on F127.6 if present, otherwise not set. See <a href="#">trnVerificationResult.authSource</a> .	NRT
trnVerificationResult.cVVVrfyInd	Mapped based on F127.27 if present, otherwise not set. See <a href="#">trnVerificationResult.cVVVrfyInd</a> .	Both
trnVerificationResult.eMVTerminalVrfyResults	Copied from the IccRequest 'TerminalVerificationResult' subfield in F127.25.	Both
trnVerificationResult.eMVCardVrfyResults	Copied from the IccRequest 'CardAuthenticationResultsCode' subfield in F127.25.	Both
trnRiskAnalysis.authFirstRuleIdent	Set to F127.22.Postilion:TrnRiskAnalysis.AuthFirstRuleIdent if available.	Both

PIM Field	Description	NRT/RT
trnRiskAnalysis.authDisposition	Set to F127.22.Postilion:TrnRiskAnalysis.AuthDisposition if available.	Both
trnRiskAnalysis.recommendedDisposition	Set to F127.22.Postilion:TrnRiskAnalysis.RecommendedDisposition if available.	Both
trnRiskAnalysis.realTimeAuthStatus	Set to F127.22.Postilion:TrnRiskAnalysis.RealtimeAuthStatus if available.	Both
trnRiskAnalysis.authRiskScore[n].scoreValue	Set to F127.22.Postilion:TrnRiskAnalysis.AuthRiskScore[n].ScoreValue if available.	Both
trnRiskAnalysis.authRiskScore[n].modelIdent	Set to F127.22.Postilion:TrnRiskAnalysis.AuthRiskScore[n].ModelIdent if available.	Both
trnRiskAnalysis.authRiskScore[n].modelDescription	Set to F127.22.Postilion:TrnRiskAnalysis.AuthRiskScore[n].ModelDescription if available.	Both
trnRiskAnalysis.authRiskScore[n].modelExecutionStatus	Set to F127.22.Postilion:TrnRiskAnalysis.AuthRiskScore[n].ModelExecutionStatus if available.	Both
trnRiskAnalysis.authRiskScore[n].reasonCodeList[n]	Set to F127.22.Postilion:TrnRiskAnalysis.AuthRiskScore[n].ReasonCodeList[n] if available.	Both
trnRiskAnalysis.additionalRiskScores[0].classicModelScore.score.scoreValue	Set to F127.22. FRAUD_SCORE if available. Format (a4)	Both

PIM Field	Description	NRT/RT
trnRiskAnalysis.additionalRiskScores[0].classicModelScore.score . reasonCode[0]	Set to F127.22. FRAUD_REASON_CODE if available. Format (a2)	Both
trnRiskAnalysis.additionalRiskScores[0].classicModelScore.score . conditionCode[0]	Set to F127.22. FRAUD_RISK_COND_CODES if available. This field is 6 byte, but only position 1 and 2 are mapped in field conditionCode[0] Format (a2)	Both
trnRiskAnalysis.additionalRiskScores[0].classicModelScore.score . conditionCode[1]	Set to F127.22. FRAUD_RISK_COND_CODES if available. This field is 6 byte, but only position 3 and 4 are mapped in field conditionCode[1] Format (a2)	Both
trnRiskAnalysis.additionalRiskScores[0].classicModelScore.score . conditionCode[2]	Set to F127.22. FRAUD_RISK_COND_CODES if available. This field is 6 byte, but only position 5 and 6 are mapped in field conditionCode[2] Format (a2)	Both
trnRiskAnalysis.additionalRiskScores[1].classicModelScore.score .scoreValue	Set to F127.22.Postilion:TrnRiskAnalysis.AdditionalRiskScore[n].ScoreValue if available and F127.22.Postilion:TrnRiskAnalysis.AdditionalRiskScore[n].ScoreIssuer is "STAR".	Both
trnRiskAnalysis.additionalRiskScores[1].classicModelScore.score .reasonCode[n]	Set to F127.22.Postilion:TrnRiskAnalysis.AdditionalRiskScore[n].ReasonCode[n] if available and F127.22.Postilion:TrnRiskAnalysis.AdditionalRiskScore[n].ScoreIssuer is "STAR".	Both

PIM Field	Description	NRT/RT
dynamicAttributes['CUST_FIRST_NAME']	<p>Set to F127.22.RISK_CUST_FIRST_NAME if available. (format: ans..30)</p> <p>The customer's first name.</p> <p>Source field location customizable through generic mapping rule 10. See the PostilionPRM User Guide for more information.</p>	Both
dynamicAttributes['CUST_LAST_NAME']	<p>Set to F127.22.RISK_CUST_LAST_NAME if available. (format: ans..30)</p> <p>The customer's last name.</p> <p><b>Note:</b> this field may contain the full name if the originating data is not separated into both CUST_FIRST_NAME and CUST_LAST_NAME.</p> <p>Source field location customizable through generic mapping rule 11. See the PostilionPRM User Guide for more information.</p>	Both
dynamicAttributes['CUST_EMAIL']	<p>Set to F127.22.RISK_CUST_EMAIL if available. (format: ans..60)</p> <p>The customer email address.</p> <p>Source field location customizable through generic mapping rule 1. See the PostilionPRM User Guide for more information.</p>	Both



PIM Field	Description	NRT/RT
dynamicAttributes['CUST_IP']	<p>Set to F127.22.RISK_CUST_IP if available. (format: ans..15)</p> <p>The customer IP address.</p> <p>Source field location customizable through generic mapping rule 2. See the PostilionPRM User Guide for more information.</p>	Both
dynamicAttributes['CUST_HOME_PHONE']	<p>Set to F127.22.RISK_CUST_HOME_PHONE if available. (format: ans..19)</p> <p>The customer home phone number.</p> <p>Source field location customizable through generic mapping rule 3. See the PostilionPRM User Guide for more information.</p>	Both
dynamicAttributes['SERVICE']	<p>Set to F127.22.RISK_SERVICE if available. (format: ans..2)</p> <p><b>Note:</b> this is a <b>mandatory</b> field when integrating PostilionPRM with <b>ReD Shield</b> and a default value should be set in the generic mapper for when this value is not available in structured data.</p> <p>The service-type request indicator for a particular order (message to the fraud screening service).</p>	Both

PIM Field	Description	NRT/RT
	Source field location customizable through generic mapping rule 5. See the PostilionPRM User Guide for more information.	
dynamicAttributes['TRAN_CATEGORY']	<p>Set to 127.22.RISK_TRAN_CATEGORY if available, otherwise derived from F123 position 14-15 and is set to one of the following values: (format: a1)</p> <p>P – card present if 123 position 6 is set to '1'; or I – internet if 123 position 14-15 is set to 90-96; T – MOTO if F25 is set to '08';</p> <p>Source field location customizable through generic mapping rule 9. See the PostilionPRM User Guide for more information.</p>	Both
dynamicAttributes['MERCHANT_IDENT']	<p>Set to F127.22.RISK_MERCHANT_IDENT if available. (format: ans..24)</p> <p><b>Note:</b> this is a <b>mandatory</b> field when integrating PostilionPRM with <b>ReD Shield</b> and a default value should be set in the generic mapper for when this value is not available in structured data.</p> <p>This is a unique identifier that corresponds to a specific merchant or group of merchants. It should remain consistent across all transactions submitted by a particular merchant or merchant group. The format of this field should be 12 numeric characters</p>	

PIM Field	Description	NRT/RT
	<p>followed by a variable length text label of 12 characters or less, e.g. "555555666666COMPANY"</p> <p>Source field location customizable through generic mapping rule 12. See the PostilionPRM User Guide for more information.</p>	
dynamicAttributes['ORDER_DT']	<p>Set to F127.22.RISK_ORDER_DT if available, otherwise derived from F13. (format: n8)</p> <p><b>Note:</b> this is a <b>mandatory</b> field when integrating PostilionPRM with <b>ReD Shield</b>.</p> <p>Source field location customizable through generic mapping rule 13. See the PostilionPRM User Guide for more information.</p>	
dynamicAttributes['ORDER_TM']	<p>Set to F127.22.RISK_ORDER_TM if available, otherwise populated with F12. (format: n6)</p> <p><b>Note:</b> this is a <b>mandatory</b> field when integrating PostilionPRM with <b>ReD Shield</b>.</p> <p>Source field location customizable through generic mapping rule 14. See the PostilionPRM User Guide for more information.</p>	
dynamicAttributes['TRVL_CARRIER_NAME']	Set to F127.22.AirlineItineraryData.CarrierName if available.	Both

PIM Field	Description	NRT/RT
	(format: an..19)	
dynamicAttributes['TRVL_TICKET_NUMBER']	Set to F127.22.AirlineItineraryData.TicketNr if available. (format: an..15)	Both
dynamicAttributes['TRVL_PLAN_NUMBER']	Set to F127.22.AirlineItineraryData.PlanNr if available. (format: an2)	Both
dynamicAttributes['TRVL_INVOICE_NUMBER']	Set to F127.22.AirlineItineraryData.InvoiceNr if available. (format: an6)	Both
dynamicAttributes['TRVL_PASSENGER_NAME']	Set to F127.22.AirlineItineraryData. PassengerName if available. ans..29	Both
dynamicAttributes['TRVL_CUSTOMER_REFERENCE']	Set to F127.22.AirlineItineraryData. CustomerRef if available. (format: ans..20)	Both
dynamicAttributes['TRVL_TRAVEL_AGENCY_CODE']	Set to F127.22.AirlineItineraryData. TravelAgencyCode if available. (format: an8)	Both
dynamicAttributes['TRVL_TICKET_AGENCY_NAME']	Set to F127.22.AirlineItineraryData. TicketAgencyName if available. (format: an..25)	Both
dynamicAttributes['TRVL_TICKET_ISSUE_ADDRESS']	Set to F127.22.AirlineItineraryData. TicketIssueAddress if available. (format: ans..16)	Both

<b>PIM Field</b>	<b>Description</b>	<b>NRT/RT</b>
dynamicAttributes['TRVL_DATE_TICKET_ISSUE']	Set to F127.22.AirlineItineraryData. DateTicketIssue if available. (format: YYYYMMDD)	Both
dynamicAttributes['TRVL_AMOUNT_TOTAL_FARE']	Set to F127.22.AirlineItineraryData. AmountTotalFare if available. (format: n12)	Both
dynamicAttributes['TRVL_AMOUNT_TOTAL_FEES']	Set to F127.22.AirlineItineraryData. AmountTotalFees if available. (format: n12)	Both
dynamicAttributes['TRVL_AMOUNT_TOTAL_TAXES']	Set to F127.22.AirlineItineraryData. AmountTotalTaxes if available. (format: n12)	Both
dynamicAttributes['TRVL_AMOUNT_ORIGINAL_INVOICE']	Set to F127.22.AirlineItineraryData. AmountOriginalInvoice if available. (format: n12)	Both
dynamicAttributes['TRVL_ORIGINAL_CURRENCY_CODE']	Set to F127.22.AirlineItineraryData. OriginalCurrencyCode if available. (format: n3)	Both
dynamicAttributes['TRVL_TICKET_QUANTITY']	Set to the number of legs of travel. (format: n..3)	Both
dynamicAttributes['TRVL_CLASS_OF_TRAVEL_LIST']	A comma separated list containing the class of travel of each leg. (format: ans)	Both
dynamicAttributes['TRVL_ROUND_TRIP']	Set to "True" if the trip is a round trip. False if otherwise.	Both

PIM Field	Description	NRT/RT
	(format: n..5)	
dynamicAttributes['TRVL_FIRST_DEPARTURE_LOCATION']	Set to the departure location of the first leg of travel. (format: an5)	Both
dynamicAttributes['TRVL_LAST_DESTINATION_LOCATION']	Set to the destination location of the last leg of travel. (format: an5)	Both
dynamicAttributes['TRVL_TIME_UNTIL_DEPARTURE']	The time in minutes from 12:00 AM on the day when the ticket was issued to the departure time of the first leg of travel. (format: an..19)	Both
dynamicAttributes['OffsetOrLiveInd']	Copied from the Cardholder Presence subfield of F123 (position 5). (format: n1)	Both
dynamicAttributes['SERVER_ID']	A value identifying the server that generated the Retail Payments Risk Analysis message. Set to the "server identifier" interface parameter if configured. (format: ans..4). If this parameter is unset and Realtime is configured to send in a ServerID, the ServerID sent by Realtime will be used.	Both
dynamicAttribute['CAVVResultCode']	Set to F127.22.CAVVRESULT if available. (format: an1)	Both
dynamicAttribute['AcqNetworkID']	Set to F127.22. ACQUIRER_NETWORK_ID if available. (format: ans3)	Both

PIM Field	Description	NRT/RT
dynamicAttribute['AppTranCounter']	Copied from the IccRequest 'ApplicationTransactionCounter' subfield in F127.25.	Both
dynamicAttributes['CardPresent']	Set to F123 position 6. n1  0 Card not present 1 Card present	Both
dynamicAttributes['CardholderPresent']	Set to 127.22.RISK_PAYMETHOD_CARD_HOLDER_PRESENT if available. (format: a1)	
dynamicAttributes['OriginalPosEntryMode']	Set to 127.22.OriginalPosEntryMode if available. (format: a3)	

## context.paymentContext.eComSecurityType

The following table describes the mapping used for the EComSecurityType field. The mapping is based on the terminal type subfield of F123.

F123 position 14-15	PIM Value
90 – E-commerce - Non-secure electronic commerce transaction (No encryption; no authentication)	8 - Non-secure electronic commerce transaction
91 – E-commerce - Attempted authentication secure electronic commerce transaction. (Merchant is capable of authenticating the cardholder but was unable to complete the authentication)	6 - Secure electronic transaction without cardholder certificate
92 - E-commerce - Fully authenticated secure electronic commerce transaction with cardholder authentication or authentication value	5 - Secure electronic transaction with cardholder certificate
93 - E-commerce - Not recommended for use	6 - Secure electronic transaction without cardholder certificate
94 - E-commerce - Not recommended for use	5 - Secure electronic transaction with cardholder certificate
95 - E-commerce - Non-authenticated encrypted electronic commerce transaction (using Secure Socket Layer [SSL] / secure channel) with no cardholder authentication or authentication value	7 - Channel-encrypted electronic commerce transaction
96 - E-commerce - Not recommended for use	7 - Channel-encrypted electronic commerce transaction
<All other values>	0 – No E-commerce



## dynamicAttributes['EMVUsrFlr']

This field carries additional customer EMV usage information. It is a string containing two subfields, both one character long.

**Position 1** — Indicates whether the card used to initiate a magnetic strip transaction is a chip card. The value is mapped based on the PAN Entry Mode (F22, position 1-2) and possibly the service restriction code, if present.

Postilion Value	EMVUsrFlr Field 1 Value
A PAN Entry Mode (F22 position 1-2) of 05, 07 or 95.	1 – A chip card
A PAN Entry Mode other than 05, 07 or 95 and the first digit of the service restriction code (F40) is '2' or '6'	1 – A chip card
All other cases	0 – Not a chip card

**Position 2** — Indicates the capability of the terminal. This field is set by the acquiring process. The value is the Card Data Input Capability subfield of POS Data Code (F123, position 1).

**Note:** When the risk management system is set to ReD Shield (RS), only position 1 and position 2 will be populated for dynamicAttributes['EMVUsrFlr'].

**Position 3** — Indicates the presence of an EMV ARQC, and only if PostCard performed ARQC validation, the outcome of that validation.

Description	EMVUsrFlr Field 3 Value	NRT/RT
ARQC not present.	0	Both
ARQC present, not validated.	1	Both
ARQC present, PostCard ARQC validation failed.	2	NRT
ARQC present, PostCard ARQC validation passed.	3	NRT

## initiatonChannel.channel

The following table summarizes the mapping between the POS Terminal ID (subfield 1 of F127.4) from the Postilion system to PIM. The object is created for mobile transaction data and is only deemed necessary if the POS Terminal ID is set to 'MOBILE'. Note that only the populated fields are listed.

Field Name	Value
channelIdent	ExternalCode.MOBILE
session	A session as created below
session.sessionIdent	Fixed as 'Unknown'
session.isLoginToken	Fixed as 'False'
session.isCookiesEnabled	Fixed as 'False'
webEnabledPhone.phoneIdent[0].mSISDN	F127.12 - Terminal Owner Truncated to 15 chars provided that the data is numeric only

If POS Terminal ID is not set to 'MOBILE', then the fields are populated as below:

Field Name	Value
channelIdent	ExternalCode.MOBILE
session	A session as created below
session.sessionIdent	Fixed as 'Unknown'
session.isLoginToken	Fixed as 'False'
session.userAgent.name	Unknown

Field Name	Value
session.isCookiesEnabled	Fixed as 'False'
session.userAgent.userAgentVersion	Unknown
session.userAgent.httpUserAgentVersion	1
session.userAgent.additionalAttributes[0]. UserAgentDeviceName	F127.12 - Terminal Owner

## status[0].statusReason.proprietary ('Route')

The following table describes the mapping used for the proprietary field of the StatusReason object related to the route. The mapping is based on the response code received in a control node notification message sent to PostilionPRM for NRT risk analysis. By **default**, the value of the StatusReason field is set to **00 – No Error** if no mapping is found.

F39 – Response Code	PIM Value
06 – Error	01 – Host Processing Error
22 – Suspected Malfunction	01 – Host Processing Error
26 – Duplicate Record	01 – Host Processing Error
27 – File Update Edit Error	01 – Host Processing Error
28 – File Update File Locked	01 – Host Processing Error
29 – File Update Failed	01 – Host Processing Error
30 – Format Error	01 – Host Processing Error
92 – Routing Error	01 – Host Processing Error
94 – Duplicate Transmission	01 – Host Processing Error
95 – Reconcile Error	01 – Host Processing Error
63 – Security Violation	02 – Security Device Failure
96 – System Malfunction	02 – Security Device Failure
91 – Issuer or Switch Inoperative	11 – Destination Not Available

<b>F39 – Response Code</b>	<b>PIM Value</b>
25 – Unable to locate record	22 – Unknown Card Number
56 – No card record	22 – Unknown Card Number

## trnVerificationResult.authSource

This field indicates the source of the authorization for this transaction. The value is mapped from the Reason subfield of F127.6 – Authorization Profile. If the value in the reason subfield is not found in the mapping, a value of O – Other is used.

F127.6 Reason subfield	AuthSource Value
1 – None	H – Host
2 – Online Stand in	P – Postilion
3 – Timeout Stand in	P – Postilion
4 – Offline Stand in	P – Postilion
9 - Visa	S – Stand in

## trnVerificationResult.cVVrfyInd

This field indicates the CVV Verification result. The value is mapped from F127.27 – Card Verification Result.

F127.27	cVVrfyInd Value
A – ATC outside allowed range	0 – Not present
B – Virtual Card Number	0 – Not present
E – Contactless CVV not verified	2 – Bad or No Match
M – CVV2 valid, CVV valid or not available	1 – Good Match
N – CVV2 invalid, CVV valid or not available	2 – Bad or No Match
P – Unable to process CVV2, CVV valid or not available	2 – Bad or No Match
U – Issuer unregistered to process CVV2, CVV valid or not available	0 – Not present
V – Unable to process CVV or contactless CVV	2 – Bad or No Match
X – CVV or contactless CVV valid	1 – Good Match
Y – CVV or contactless CVV invalid	2 – Bad or No Match

## CardInitiatedTrnRiskAnalyzeRs

This object is the root object containing the response to the service request made to PRM.

PIM Field	Description	NRT/RT
status.details	Optional. A human readable description providing more information regarding the supplied status code.	Both
status.code	Optional. A status code representing the system specific ERROR or WARNING condition.	Both
status.severity	Optional. Set to ERROR to indicate that an error occurred. Set to WARNING to indicate that processing completed with a warning. If set to ERROR, the response payload will not be processed and sent to Transaction Manager.	Both
cardInitiatedTrnRiskAnalyze[0]	Mandatory. Contains the result of the risk analysis call. This object is used to populate F127.22.TrnRiskAnalysis.	Both
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.authFirstRuleIdent	Optional. Unique identifier of the first Rule run during the Authorization process.	Both
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.authDisposition	Optional. Identifies the outcome of the original real-time transaction.	Both
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.recommendedDisposition	Optional. The recommended disposition of the transaction. Valid values are as follows: A = Authorize, D = Decline, R = Refer.	Both
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.realTimeAuthStatus	Optional. Identifies the latest status of Authorization of transaction by Risk/Score/Rule Engine.	Both



PIM Field	Description	NRT/RT
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.authRiskScore[x].modelScore.scoreValue	Mandatory. The generated score for an event (by a specific model).	Both
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.AuthRiskScore[x].modelScore.modelIdent	Mandatory. The identifier of the model that generates the event score. Each model can generate a single score for an event.	Both
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.authRiskScore[x].modelScore.modelDescription	The description of the model that generates the event score. It is trimmed to first 64 characters.	Both
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.authRiskScore[x].modelScore.modelExecutionStatus	Code that indicates the status if the model executed or not.	Both
cardInitiatedTrnRiskAnalyze[0].trnRiskAnalysis.authRiskScore[x].reasonCodeList[y]	Reason code list containing the integer reason codes. These codes are specific to each model.	Both
cardInitiatedTrnRiskAnalyze[0].messageType	Mandatory. This is the type of the message that has been loaded from Transaction originating system. Set to cardInitiatedTrnRiskAnalyzeRq.messageType	Both

## Section 2: Demographic Data Upload

Each section below details the PIM fields set for each demographic upload, based on data extracted from the Realtime and PostCard databases. In all cases, the response messages received are only inspected for the response status (and possibly detailed responses, if the status indicated failure). The response status is contained in the base service response object.

Where needed, '[x]' is used to indicate that the list index is unspecified as it could vary.

Note that field names are case sensitive.

### Merchant Upload

The following table summarizes the mapping between the Merchant demographic data from the Postilion system and PIM. Note that only the PIM fields populated for the upload are listed.

#### MerchantLoadRq

This object is the root object containing a list of Merchant records to be sent to PRM.

PIM Field	Description
createdDate	Set to the date the object was created.
requestUID	Set to the concatenation of the time the uploader was initialized and the number of service calls (requests) made to upload Merchant data so far.
merchantLoad[]	Contains a list of MerchantLoadRow objects, each representing information about one Merchant (Card Acceptor). See next table for mapping details.

## MerchantLoadRq.merchantLoad[row]

This object contains information for a single card acceptor. Note that the source of the information is the data extracted from the realtime database in an earlier step. The definition of this file can be found at [here](#).

PIM Field	Description
commonName	Set to location information subfield of the Name Location field (position 1-23).
currency	Set to the Currency Code field, converted to an alpha-currency code.
dynamicAttributes['Currency_Code']	Set to the Currency Code field. (numeric currency code)
dynamicAttributes['RetailLocation_RetailLocationAddress_AddressLine_1']	Set to the location information subfield of the Name Location field (position 1-23).
merchantIdent	Set to the Card Acceptor field.
retailLocation.retailLocationAddress.addressLine[0]	Set to the location information subfield of the Name Location field (position 1-23).
retailLocation.retailLocationAddress.city	Set to the city subfield of the Name Location field (position 24-36).

PIM Field	Description
retailLocation.retailLocationAddress.countryCode	Set to the country subfield of the Name Location field (position 39-40).
retailLocation.retailLocationAddress.stateProvince.code	Set to the state or region subfield of the Name Location field (position 37-38).
retailLocation.status.code	Set to "OK"
retailLocation.status.schema.proprietary	Set to "POST"
merchantCategoryCode.proprietary	Set to the Merchant Type field.

## Terminal (Point of Interaction) Upload

The following table summarizes the mapping between the Terminal (or POI – Point of Interaction) demographic data from the Postilion system and PIM. Note that only the PIM fields populated for the upload are listed.

### POILoadRq

This object is the root object containing a list of Terminal records to be sent to PRM.

PIM Field	Description
createdDate	Set to the date the object was created.
requestUID	Set to the concatenation of the time the uploader was initialized and the number of service calls (requests) made to upload Terminal data so far.
pOILoad[]	Contains a list of POILoadRow objects, each representing information about one Terminal. See next table for mapping details.

## POILoadRq.pOILoad[row]

This object contains information for a single terminal. Note that the source of the information is the data extracted from the realtime database in an earlier step. The definition of this file can be found [here](#).

PIM Field	Description
address.countryCode	Set to the country subfield of the POS Geographic Data field (position 15-17).
address.postalCode	Set to the postal service code subfield of the POS Geographic Data field (position 6-14).
address.stateProvince.code	Set to the state code subfield of the POS Geographic Data field (position 1-2).
model	Set to the Model field.
name	Set to the Short Name field.
owner.ownerIdent.ident	Set to the Card Acceptor field.
owner.ownerIdent.schema.proprietary	Set to "POST"
services.pOIDeployedDate	Set to the Date Deployed field, if present.
startDate	Set to the Date Deployed field, if present.
status[0].status.code	Set to the Terminal Active field.
status[0].status.schema.proprietary	Set to "POST" when Status[0].Code is present.
systemIdent.ident	Set to the concatenation of Card Acceptor and ID fields if both are present.
type.proprietary	Set to the Term Type field.

PIM Field	Description
dynamicAttributes['TermOpnDate']	Set to the Date Deployed field, if present, converted to a string in the 'yyyy-MM-dd HH:mm:ss' format. This represents a timestamp in the timezone of the PostilionPRM server.

## Account Upload

The following table summarizes the mapping between the Account demographic data extracted from PostCard and PIM. Note that only the PIM fields populated for the upload are listed.

### AccountLoadRq\_Type

This object is the root object containing a list of Account records (AccountLoadRow\_Type) to be sent to PRM.

PIM Field	Description
createdDate	Set to the date the object was created.
requestUID	Set to the concatenation of the time the uploader was initialized and the number of service calls (requests) made to upload Account data so far.
AccountLoad[]	Contains a list of AccountLoadRow_Type objects, each representing information about one Account. See next table for mapping details.

## AccountLoadRq\_Type.accountLoad[row]

The PostCard de-normalized Customer Accounts extract will provide information for a single account and customer.

PIM Field	Description
account.owner[0].dynamicAttributes['AccountId']	Set to the Account ID field.
account.ident.otherIdent.ident	Set to the Account ID field.
account.type.otherType.code	Set to the Account type field.
account.currency	Set to the alpha-currency code equivalent of the currency from the numeric Currency code field.
account.description	Set to the Account product field.
account.overdraftLimit	Set to the Overdraft limit field, if present.
account.updateDateTime	Set to the Last updated date field.
account.owner[0].accountOwner.customerIdent.ident	Set to the Customer ID field.
account.owner[1].accountOwner.customerIdent.ident	Set to the Customer ID field.
account.owner[0].dynamicAttributes['MasterAccountId']	Set to the Customer ID field.
account.owner[0].dynamicAttributes['PrimaryOwnerFirstName']	Set to the C1 First Name field. The dynamic attribute allows the full length data.
account.owner[0].contactDetails.name.middleInitial	Set to the C1 initial field.
account.owner[0].dynamicAttributes['PrimaryOwnerLastName']	Set to the C1 last name field. The dynamic attribute allows the full length data.



PIM Field	Description
account.owner[0].accountOwner.party.person.dateOfBirth	Set to the Date of birth field. Expressed in UTC.
account.owner[0].accountOwner.party.person.ident[0].ident	Set to the National ID field
account.owner[0].contactDetails.emailAddress[0]	Set to the Email address field.
account.owner[0].dynamicAttributes['PrimaryOwnerHomePhoneNumber']	Set to the Telephone number field.
account.owner[0].dynamicAttributes['PrimaryOwnerMobilePhoneNumber']	Set to the Mobile telephone number field
account.owner[0].dynamicAttributes['SecondaryOwnerFirstName']	Set to the C2 first name field. The dynamic attribute allows the full length data.
account.owner[1].contactDetails.name.middleInitial	Set to the C2 initials field
account.owner[0].dynamicAttributes['SecondaryOwnerLastName']	Set to the C2 last name field. The dynamic attribute allows the full length data.
account.owner[0].dynamicAttributes['CompName']	Set to the Company Name field (this identifies a business account).
account.owner[0].dynamicAttributes['AccountOwnerDateOfBirth']	Set to the Date of birth field converted to a string in the 'yyyy-MM-dd' format.
account.owner[0].dynamicAttributes['UpdateDateTime']	Set to the Last updated date field converted to a string in the 'yyyy-MM-dd HH:mm:ss' format. This represents a timestamp in the timezone of the PostilionPRM server.
account.owner[0].accountOwner.dynamicAttributes['BillingAddressLine1']	Set to the Other address 1 field
account.owner[0].accountOwner.dynamicAttributes['BillingAddressLine2']	Set to the Other address 2 field
account.owner[0].accountOwner.dynamicAttributes['BillingAddressCity']	Set to the Other city field

PIM Field	Description
account.owner[0].accountOwner.dynamicAttributes['BillingAddressStateProvince']	Set to the Other region field
account.address[0].countryCode	Set to the Other country field
account.owner[0].accountOwner.dynamicAttributes['BillingAddressPostalCode']	Set to the Other postal code field
account.owner[0].accountOwner.dynamicAttributes['ResidentialAddressLine1']	Set to the Postal address 1 field
account.owner[0].accountOwner.dynamicAttributes['ResidentialAddressLine2']	Set to the Postal address 2 field
account.owner[0].accountOwner.dynamicAttributes['ResidentialAddressCity']	Set to the Postal city field
account.owner[0].accountOwner.dynamicAttributes['ResidentialAddressStateProvince']	Set to the Postal region field
account.address[1].countryCode	Set to the Postal country field
account.owner[0].accountOwner.dynamicAttributes['ResidentialAddressPostalCode']	Set to the Postal code field
account.vIPIndicator	Set to True if the VIP field is 1, otherwise set to False.
account.businessServicesCode	Set to 'J' (Business) if Company name is present, otherwise set to 'F' (Personal)
account.additionalAttributes['AccountGoodLimit']	Set to the Goods limit field of the account override limits extract, if present.
account.additionalAttributes['AccountCashLimit']	Set to the Cash limit field of the account override limits extract, if present.

PIM Field	Description
account.ident.otherIdent.issuer	Set to the institution id associated with the issuer this account belongs to in PostCard (identified when running the extract).
account.fIIIdent.fIIIdent[0].otherIdent.ident	Set to the institution id associated with the issuer this account belongs to in PostCard (identified when running the extract).

## Card Upload

The following table summarizes the mapping between the Card demographic data extracted from PostCard and PIM. Note that only the PIM fields populated for the upload are listed.

### CardLoadRq

This object is the root object containing a list of Card records to be sent to PRM.

PIM Field	Description
createdDate	Set to the date the object was created.
requestUID	Set to the concatenation of the time the uploader was initialized and the number of service calls (requests) made to upload Card data so far.
cardLoad[]	Contains a list of CardLoadRow objects, each representing information about one Card. See next table for mapping details.

## CardLoadRq.cardLoad[row]

This object contains information for a single card. Note that the source of the information is the data extracted from PostCard in an earlier step. The definition of this file can be found [here](#). Fields which do not adhere to the length restrictions set out by the PIM standards are mapped to dynamic attributes as opposed to the PIM object they would be expected in.

PIM Field	Description
activationIndicator	Set to True based on the value of Bit 0 – Active in the Card status field.
activationDate	Set to the Date Activated field if present, otherwise not set.
cardholder[0].address[0].city	Set to the Postal City field. The field is limited to 30 characters, according to the current PIM specification. If it is greater than 30 characters it will not be present in this field but form part of the Dynamic Attributes as “UserCity”.
cardholder[0].address[0].postalCode	Set to the Postal Code field. The field is limited to 16 characters, according to the current PIM specification. If it is greater than 16 characters it will not be present in this field but form part of the Dynamic Attributes as “UserPostCode”.
cardholder[0].address[0].stateProvince.code	Set to the Postal Region field.
cardholder[0].address[0].countryCode	Set to the Postal Country field.
cardholder[0].address[0].addressLine[0..1]	The contents of Postal Address 1 and Postal Address 2 fields are copied as individual lines into this field. If Postal Address 1 is not

PIM Field	Description
	<p>present, but Postal Address 2 is, the first line in the PIM field will be an empty string.</p> <p>Each line is limited to 70 characters, according to the current PIM specification. If a line is greater than 70 characters it will not be present in this field but form part of the Dynamic Attributes as "UserAddress(n)" (e.g. "UserAddress1" or "UserAddress2").</p>
cardholder[0].birthDate	Set to the Date of Birth field. Expressed in UTC.
cardholder[0].cardRelType	Set to "Primary".
cardholder[0].contactDetails.emailAddress[0]	Set to the Email Address field, if present. Truncated to 254 characters to fit into the PIM field.
cardholder[0].contactDetails.phoneNumbers[0].phoneNumber	Set to the Telephone Number field, if present.
cardholder[0].contactDetails.phoneNumbers[0].type.code	Set to "HomePhoneNumber" if the Telephone Number field is present.
cardholder[0].contactDetails.phoneNumbers[1].phoneNumber	Set to the Mobile Number field, if present.
cardholder[0].contactDetails.phoneNumbers[1].type.code	Set to "MobilePhoneNumber" if the Mobile Number field is present.
dynamicAttributes['CustMstrAmt']	Set to the Goods limit field of the card override limits extract.
dynamicAttributes['LimitEndDateTime']	Set to a string in the 'yyyy-MM-dd HH:mm:ss' format representing the end of the current day. This represents a timestamp in the timezone of the PostilionPRM server.

PIM Field	Description
dynamicAttributes['EffectiveDate']	Set to a string in the 'yyyy-MM-dd' format constructed from the From Date and From Day fields, if both are present. Not set if either or both fields are empty.
dynamicAttributes['ActivationDate']	Set to the Date Activated field, if present, converted to a string in the 'yyyy-MM-dd HH:mm:ss' format. This represents a timestamp in the timezone of the PostilionPRM server.
dynamicAttributes['IssueDate']	Set to the Date Issued field, if present, converted to a string in the 'yyyy-MM-dd HH:mm:ss' format. This represents a timestamp in the timezone of the PostilionPRM server.
dynamicAttributes['CardholderDateOfBirth']	Set to the Date of Birth field converted to a string in the 'yyyy-MM-dd' format.
dynamicAttributes['UserAddress(n)']	Copied from the field Postal Address 1 or Postal Address 2 if the field is longer than 70 characters (where UserAddress(n) is "UserAddress1" or "UserAddress2")
dynamicAttributes['UserCity']	Set to the Postal City field if the field is longer than 30 characters.
dynamicAttributes['UserPostCode']	Set to the Postal Code field if the field is longer than 16 characters.
cardholder[0].name.givenName	Set to the C1 First Name field, truncated to 35 characters.

PIM Field	Description
cardholder[0].name.familyName	Set to the C1 Last Name field, truncated to 35 characters.
cardholder[0].name.middleInitial	Set to the C1 Initial field, truncated to 1 character.
cardholder[0].personIdent[0].ident	Set to the Customer ID field if present.
cardholder[0].personIdent[1].ident	Set to the National ID field, if present.
cardholder[0].personIdent[1].schema	Set to "TXID" if the National ID field is present.
cardholder[1].cardRelType	Set to "Secondary".
cardholder[1].name.givenName	Set to the C2 First Name field, truncated to 35 characters.
cardholder[1].name.familyName	Set to the C2 Last Name field, truncated to 35 characters.
cardholder[1].name.middleInitial	Set to the C2 Initial field, truncated to 1 character.
cardholder[1].personIdent[0].ident	Set to the Customer ID field if present.
cardholder[1].personIdent[1].ident	Set to the National ID field, if present.
cardholder[1].personIdent[1].schema	Set to "TXID" if the National ID field is present.
limits[0].amount.amount	Set to the Cash Limit field of the card override limits extract.
limits[0].amount.currency	Set to the Currency field of the card override limits extract.

PIM Field	Description
limits[0].creditDebitIndicator	Set to "CRED" if a limit is present.
limits[0].endDateTime	Set to timestamp for the end of the current day.
limits[0].periodicity	Set to "DAIL", as the limit provided is Daily.
limits[0].type	Set to "CreditLimit".
cardIdent.cardSeqNum	Set to the Sequence Number field, if the PAN field is present.
cardIdent.expirationDate	Set to the Expiry Date field if the PAN field is present.
cardIdent.pAN	Set to the PAN field, if present.
effectiveDate	Constructed from the From Date and From Day fields, if both are present. Not set if either or both fields are empty.
issueDate	Set to the Date Issued field if present, otherwise not set.
issuerIdent[0].fiident.otherIdent.ident	Set to the institution id associated with the issuer this card belongs to in PostCard.
issuerIdent[0].fiident.otherIdent.schema.proprietaryCode	Set to "POST".
issuerIdent[1].otherIssuerIdent.ident	Set to the institution id associated with the issuer this card belongs to in PostCard.
issuerIdent[1].otherIssuerIdent.schema.proprietary	Set to "POST".



PIM Field	Description
issuerIdent[2].iinIdent	Set to a substring of the PAN field, the first 6 characters, used to identify the issuer institution.
paymentCardStatus.code	Set to "0".
paymentCardStatus.statusReason.code	If the Hold Response Code is not set or is "00", this field is set to "F"; Otherwise it is set to "T".
productCode.proprietaryCode	Set to the Card Program field.

## Customer Upload

The following table summarizes the mapping between the Customer demographic data extracted from PostCard and PIM. Note that only the PIM fields populated for the upload are listed.

### CustomerLoadRq

This object is the root object containing a list of Card records to be sent to PRM.

PIM Field	Description
createdDate	Set to the date the object was created.
requestUID	Set to the concatenation of the time the uploader was initialized and the number of service calls (requests) made to upload Customer data so far.
customerLoad[]	Contains a list of CustomerLoadRow objects, each representing information about one Customer. See next table for mapping details.

## CustomerLoadRq.customerLoad[row]

This object contains information for a single customer. Note that the source of the information is the data extracted from PostCard in an earlier step. The definition of this file can be found [here](#). Fields which do not adhere to the length restrictions set out by the PIM standards are mapped to dynamic attributes as opposed to the PIM object they would be expected in.

PIM Field	Description
customer.customerAgent.fIIIdent[0].otherIdent.ident	Set to the institution id associated with the issuer this customer belongs to in PostCard.
customer.customerAgent.fIIIdent[0].otherIdent.schema.proprietary	Set to "POST"
customer.customerIdent.ident	Set to the Customer ID field.
customer.customerIdent.schema.proprietary	Set to "POST"
customer.dynamicAttributes['PrimaryParty_Person_Name_GivenName']	Set to the C1 First Name field if present.
customer.dynamicAttributes['PrimaryParty_Person_Name_FamilyName']	Set to the C1 Last Name field if present.
customer.dynamicAttributes['RelatedParties_Name_GivenName']	Set to the C2 First Name field if present.
customer.dynamicAttributes['RelatedParties_Name_FamilyName']	Set to the C2 Last Name field if present.
customer.dynamicAttributes['PrimaryParty_Person_Address_AddressLine_1']	Set to the Postal Address 1 field if present.
customer.dynamicAttributes['PrimaryParty_Person_Address_AddressLine_2']	Set to the Postal Address 2 field if present.

PIM Field	Description
customer.dynamicAttributes['PrimaryParty_Person_DateOfBirth']	Set to the Date of Birth field converted to a string in the 'yyyy-MM-dd' format.
customer.dynamicAttributes['UserCity']	Set to the Postal City field if greater than 30 characters.
customer.dynamicAttributes['RelatedParties_Address_AddressLine_1']	Set to the Other Address 1 field if present.
customer.dynamicAttributes['RelatedParties_Address_AddressLine_2']	Set to the Other Address 2 field if present.
customer.primaryParty.person.address[0].addressLine[0..1]	The contents of Postal Address 1 and Postal Address 2 fields are copied as individual lines into this field. If Postal Address 1 is not present, but Postal Address 2 is, the first line in the PIM field will be an empty string. Each line is truncated to 70 characters, according to the current PIM specification.
customer.primaryParty.person.address[0].postalCode	Set to the Postal Code field.
customer.primaryParty.person.address[0].city	Set to the Postal City field. The field is limited to 30 characters, according to the current PIM specification. If it is greater than 30 characters it will not be present in this field but form part of the Dynamic Attributes as "UserCity".
customer.primaryParty.person.address[0].countryCode	Set to the Postal Country field.
customer.primaryParty.person.address[0].stateProvince.code	Set to the Postal Region field.
customer.primaryParty.person.contactDetails.emailAddress[0]	Set to the Email Address field, if present.

PIM Field	Description
	Truncated to 254 characters to fit into the PIM field.
customer.primaryParty.person.contactDetails.phoneNumbers[x].phoneNumber	Set to the Telephone Number field, if present.
customer.primaryParty.person.contactDetails.phoneNumbers[x].type.code	Set to "HOME" if the Telephone Number field is present.
customer.primaryParty.person.contactDetails.phoneNumbers[x].phoneNumber	Set to the Mobile Telephone Number field, if present.
customer.primaryParty.person.contactDetails.phoneNumbers[x].type.code	Set to "MOBILE" if the Mobile Telephone Number field is present.
customer.primaryParty.person.contactDetails.faxNumber	Set to the Fax Number field, if present.
customer.primaryParty.person.dateOfBirth	Set to the Date of Birth field. Expressed in UTC.
customer.dynamicAttributes['CompanyName']	Set to the Company Name field, if present.
customer.primaryParty.person.ident[0].ident	Set to the Customer ID field.
customer.primaryParty.person.ident[0].schema.proprietary	Set to "POST"
customer.primaryParty.person.ident[1].ident	Set to the National ID field, if present.
customer.primaryParty.person.ident[1].schema.proprietary	Set to "TXID" if the National ID field is present.
customer.primaryParty.person.name.familyName	Set to the C1 Last Name field, truncated to 35 characters.
customer.primaryParty.person.name.fullName	Set to the concatenation of C1 First Name and C1 Last Name. If C1 First Name is present, this

PIM Field	Description
	value is truncated to 69 characters and appended with a space character. If C1 Last Name is present, the value is truncated to 70 characters, before concatenating with the C1 First Name.
customer.primaryParty.person.name.givenName	Set to the C1 First Name value, truncated to 35 characters.
customer.primaryParty.person.preferredLanguage	The value from Preferred Language, converted to a 2 digit language code if necessary.
customer.relatedParties[x].address[x].addressLine[0..1]	The contents of Other Address 1 and Other Address 2 fields are copied as individual lines into this field. If Other Address 1 is not present, but Other Address 2 is, the first line in the PIM field will be an empty string. Each line is truncated to 70 characters, according to the current PIM specification.
customer.relatedParties[x].address[x].postalCode	Set to the Other Postal Code field.
customer.relatedParties[x].address[x].city	Set to the Other City field.
customer.relatedParties[x].address[x].countryCode	Set to the Other Country field.
customer.relatedParties[x].address[x].stateProvince.code	Set to the Other Region field.
customer.relatedParties[x].name.familyName	Set to the C2 Last Name field, truncated to 35 characters.
customer.relatedParties[x].name.fullName	Set to the concatenation of C2 First Name and C2 Last Name. If C2 First Name is present, this

PIM Field	Description
	<p>value is truncated to 69 characters and appended with a space character.</p> <p>If C2 Last Name is present, the value is truncated to 70 characters, before concatenating with the C2 First Name.</p>
customer.relatedParties[x].name.givenName	Set to the C2 First Name field, truncated to 35 characters.
customer.vIPIndicator	Set to True if the VIP field is 1, otherwise set to False.

## File and Data Formats


Internal demographic extract files are comma separated (CSV) and each line defines a single record.

### Cards, Customers, Accounts

A PostCard full card-account extract is used to produce the files containing the demographic data required. The extract outputs files in the **Standard 3** format, see the PostCard interface specification for details of these files. Note that PostCard converts embedded commas into semi-colons and does not quote each field.

### Card Acceptors


A custom extract is used to extract all Card Acceptor and Terminal information from the Realtime system. The extracted data is written to file in comma separated format, with each field quoted (and fully escaped, should the field contain embedded quotes of its own).

CardAcceptors.txt		
Field	Type	Source
Card acceptor 	Char(15)	tm_card_acceptor.card_acceptor
Name Location	Char(40)	tm_card_acceptor.name_location
Currency Code	Char(3)	tm_card_acceptor.currency_code
Default Language	Int	tm_card_acceptor.default_language
Card Set	Varchar(20)	tm_card_acceptor.card_set
Limits Class	Varchar(20)	tm_card_acceptor.limits_class
Routing Group	Varchar(20)	tm_card_acceptor.routing_group
Support Team	Int	tm_card_acceptor.support_team



Worst Event Severity	Int	tm_card_acceptor.worst_event_severity
Status	Varchar(100)	tm_card_acceptor.status
Merchant Type	Char(4)	tm_card_acceptor.merchant_type

## Terminals

Terminals.txt		
Field	Type	Source
Id 	Char(8)	term.id
Short name	Varchar(20)	term.short_name
Support team	Int	term.support_team
Worst Event Severity	Int	term.worst_event_severity
Card Acceptor	Int	term.card_acceptor
Participant id	Int	term.participant_id
Pos Geographic Data	Char(17)	term.pos_geographic_data
Sponsor Bank	Char(8)	term.sponsor_bank
POS Data Code	Char(15)	term.pos_data_code
Serial Number	Varchar(30)	term.serial_nr
Date Deployed	DateTime	term.date_deployed

Terminals.txt		
	(output in yyyy-MM-dd HH:mm:ss.SSS format)	
Last Message Type	Varchar(20)	term.last_message_type
Last Message Time	DateTime (output in yyyy-MM-dd HH:mm:ss.SSS format)	term.last_message_time
Status	Varchar(100)	term.status
Hardware Config	Varchar(100)	term.hardware_config
Value Bars	Varchar(600)	term.valueBars
Miscellaneous	Varchar(250)	term.miscellaneous
Security Team	Int	term.security_team
Media Team	Int	term.media_team
Supplies Team	Int	term.supplies_team
Term Mode	Int	term.term_mode
Last Tran Message Time	DateTime (output in yyyy-MM-dd HH:mm:ss.SSS format)	term.last_tran_msg_time
Model	Varchar(30)	term_type.model

Terminals.txt		
Iso Device Type	Int	term_type.iso_device_type

## Section 3: Card Block/Unblock

The section below details the PIM fields expected for CardStatusMod service requests and PIM fields provided in service response messages. The response status is contained in the base service response object.

### CardStatusMod Service

The following table summarizes the PIM fields interpreted/populated and the expected content for each.

#### CardStatusModRq

This object contains details of the card and the operation to perform on the card.

PIM Field	Description
issuerIdent[0].fiident.otherIdent.ident	Should be set to the Institution ID of the PostCard issuer for which the card operation should be performed.
issuerIdent[0].fiident.bicident	Used to identify the Institution ID if the previous field is not set.
issuerIdent[0].iso8583Ident	Used to identify the Institution ID if the previous fields are not set.
issuerIdent[0].otherIssuerIdent.ident	Used to identify the Institution ID if the previous fields are not set.
cardIdent.pAN	Should be set to the PAN for the card(s) to be blocked/unblocked.
cardIdent.expirationDate	Should be set to the expiration date of the card to be blocked/unblocked if only cards with a specific expiration date should be blocked/unblocked. If not set, all expiration dates will be considered when identifying the card (or cards) to block/unblock.

cardIdent.cardSeqNum	Should be set to the card sequence number of the card to be blocked/unblocked if only cards with a specific sequence number should be blocked/unblocked. If not set, all card sequence numbers will be considered when identifying the card (or cards) to block/unblock.
status.code	Set to "BLOCK" or "UNBLOCK" to either block or unblock the card (or cards).
status.statusReason.code	When cardStatusModRq.status.code is set to "BLOCK", set to the hold response code to be set on the card(s). If not present the hold response code defaults to 59 – Suspected Fraud.
createdDate	Set to the date/time the request was initiated. Expressed in UTC.

## CardStatusModRs

This object contains the result of the block/unblock operation.

PIM Field	Description
status.code	<p>Set to "OK" if the card block/unblock completed successfully.</p> <p>Set to "PARTIALLY_COMPLETED" if multiple cards matched the card information provided in the request and not all instances of the card could be blocked/unblocked.</p> <p>Set to "CARD_ALREADY_BLOCKED" if a card block was requested for a card that is already blocked.</p> <p>Set to "CARD_ALREADY_UNBLOCKED" if a card unblock was requested for a card that is not currently blocked.</p> <p>Set to "NO_CARD_RECORD" if the card does not exist.</p> <p>Set to "FORMAT_ERROR" if the request failed content validation.</p>

	<p>Set to "INVALID_FI" if the Institution ID provided in the request is not valid.</p> <p>Set to "FUNCTION_NOT_SUPPORTED" if the block/unblock operation has been disabled.</p> <p>Set to "SWITCH_ERROR" for any other error responses returned by the switch while attempting to perform the block/unblock operation.</p>
status.details	<p>For failure responses, this field contains additional details including the Postilion ISO 8583 Response Code (field 39) if available.</p>

## Section 4: Transaction Risk Analysis Management

The section below details the PIM fields expected for TransactionRiskAnalysisManagement service requests and PIM fields provided in service response messages. The response status is contained in the base service response object.

### TransactionRiskAnalysisManagement Service

The following table summarizes the PIM fields interpreted/populated and the expected content for each.

#### TransactionRiskActionRq\_Type

This object contains the action to take for a transaction that was held from settlement pending review. When the transaction was sent by the PRM interface for risk screening, the recommended disposition received from PRM indicated that the transaction should be held.

PIM Field	Description
createdDate	Set to the date when the request was created.
requestUID	This is a unique identifier of the PIM message.
transaction.ident	Set to the transaction identifier of the original transaction that was sent for risk screening.
action	The action to be taken for the transaction after the review. Valid values include: D = Stop Payment A = Release Payment
actionDescription	Set to the description of the action.
note	Set to the notes entered by the analyst after the review. This field is optional.

## TransactionRiskActionRs\_Type

This object contains the result of processing the request message.

PIM Field	Description
requestUID	Set to the value of the requestUID field received in the TransactionRiskActionRq_Type.
responseStatus.Code	Set to "OK" if the request was processed successfully. Set to "FAILED" if the request failed content validation, or the switch returned an error while attempting to process the request.
responseStatus.Description	For failure responses, this field contains additional details: If validation of the request failed, this field is set to the validation error message. If the switch returned an error, this field is set to the Postilion ISO 8583 Response Code (field 39).