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# PROTECTPAY® APPLICATION PROGRAMMING INTERFACE - REST

Instructions to Interface with ProPay® ProtectPay®

**PROPAY**  
A TSYS® Company

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<b>02/19/2020</b>	6.18.7	Added new element to SpltPay Reversals - MerchantProfileId	Implementations
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ProtectPay is a powerful, secure data repository that enables merchants to safely store their customers' sensitive payment data with ProPay, rather than retain this data within their own systems. Merchants can easily access the stored data for ongoing business transactions. When used with one of the ProtectPay Payer Management Interfaces, sensitive payment information is securely stored and/or processed without having the information traverse a merchant or service provider's system. This significantly reduces PCI compliance burdens, freeing up critical time and resources to build their core businesses.

### How to use this manual

This manual is designed to facilitate developers integrating the ProtectPay API with their own software and software solutions. It is not written from the perspective of a single development platform. It is written to provide the basic information required to properly interact with the Application Programming Interface. The ProtectPay API is an object oriented API and each interface is a viable means of consuming the services and methods offered by ProtectPay.

A developer should have an understanding of Hyper Text Transfer Protocol (HTTP) communication, the consuming of external web services and creating a Secure Sockets Layer (SSL) connection on the intended development platform. Certain methods require an understanding of SSL communication using X.509 certificates and Advanced Encryption Standard (AES) encryption on the intended development platform. The ProPay Web Integration requires an understanding of Extensible Markup Language (XML) and/or Simple Object Access Protocol (SOAP) and/or Representational State Transfer (REST) and Basic HTTP Authentication and/or Web Services Description Language (WSDL).

While ProPay offers resources and materials to assist developers in developing solutions and software it is the responsibility of the developer to develop his or her own solution and software on the intended development platform to make use of and consume the services offered by ProPay.

Updated manuals can always be found at [www.propay.com/Resources](http://www.propay.com/Resources).

### Additional Resources

- See ProtectPay API Manual Appendices for lists of:
  - Response values returned by ProtectPay
  - Supported Processors, Gateways and Service Providers
  - Supported Swipe Devices
- ProPay also maintains a developer community portal with code samples, explanations, and other helps. See <http://www.propay.com/developer>

### Disclaimer

ProPay provides the following documentation on an "AS IS" basis without warranty of any kind. ProPay does not represent or warrant that ProPay's website or the API will operate securely or without interruption. ProPay further disclaims any representation or warranty as to the performance or any results that may be obtained through use of the API.

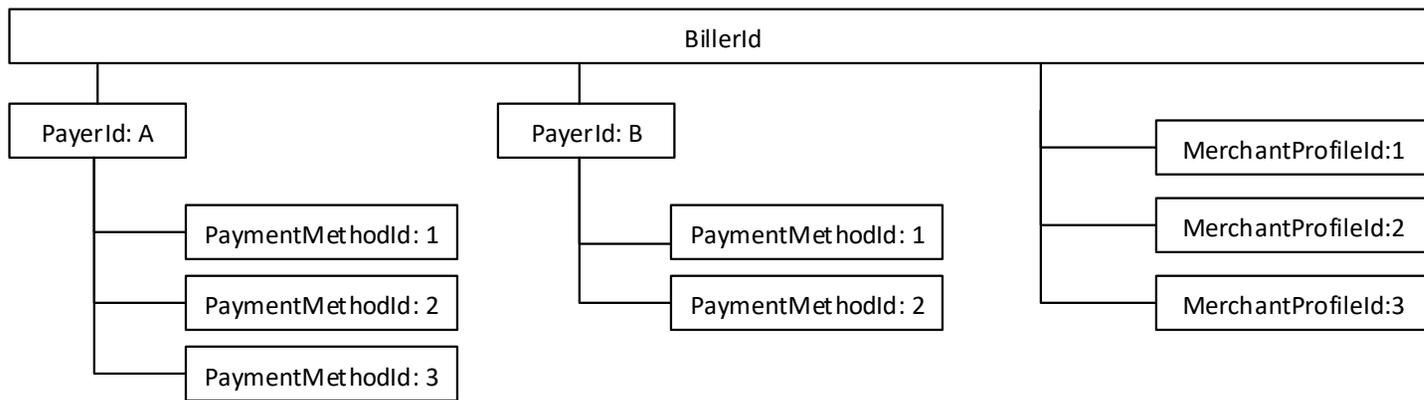
Regardless of its cause, ProPay will not be liable to client for any direct, indirect, special, incidental, or consequential damages or lost profits arising out of or in connection with client's use of this documentation, even if ProPay is advised of the possibility of such damages. Please be advised that this limitation applies whether the damage is caused by the system client uses to connect to the ProPay services or by the ProPay services themselves.

# 1.0 Processing with ProtectPay

- ProtectPay is neither a processor nor a gateway. It is, instead, a secure collection of sensitive payment data. ProtectPay stores data securely for both single and recurring or subsequent payments using industry best practices.

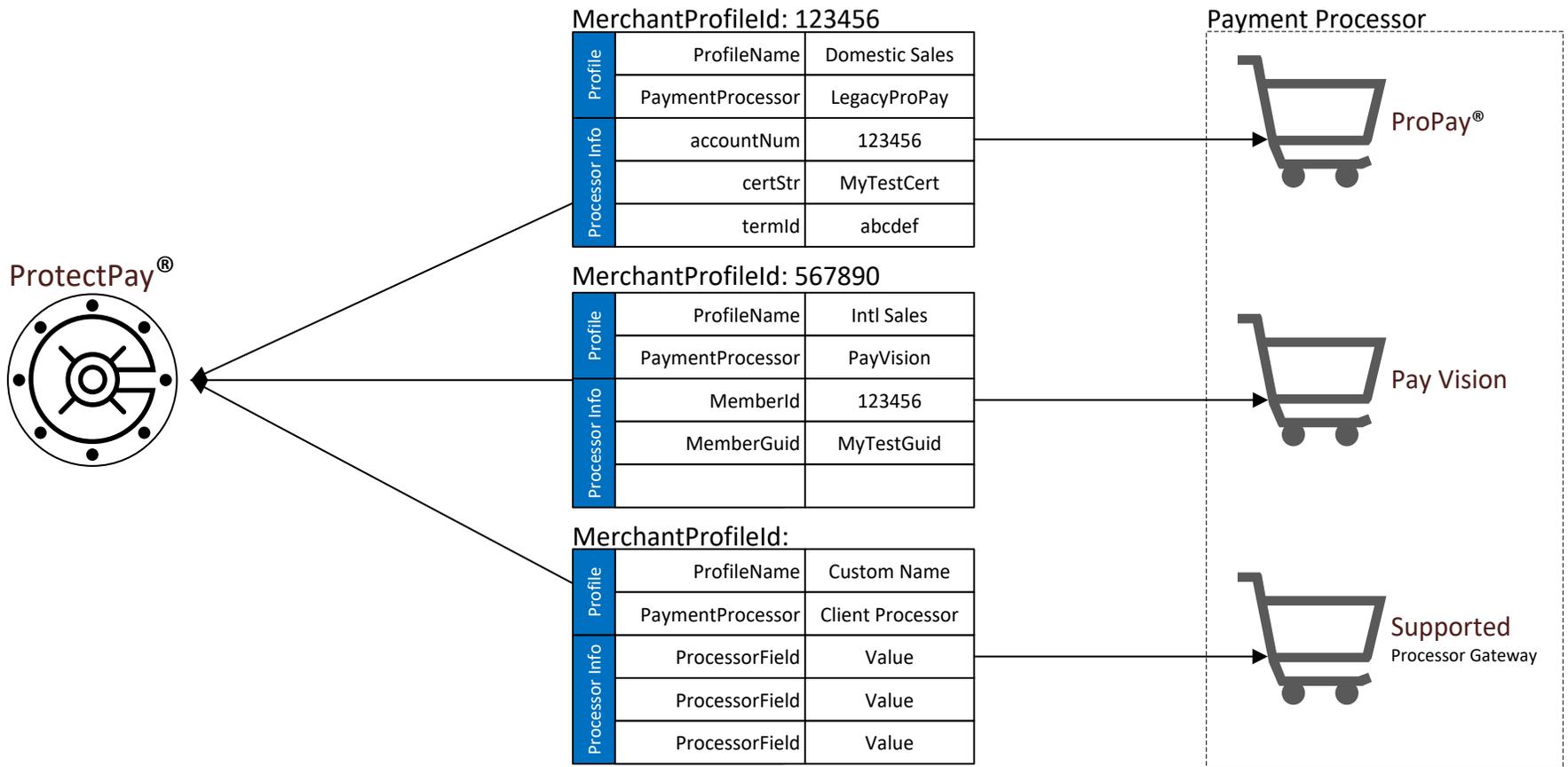
## Hierarchy: Payers and Payment Methods

ProtectPay is an organized hierarchy of ownership based on a Biller. A Biller owns Payers and Payment methods underneath them. Ownership is required in order to use ProtectPay tokens for processing.



## Merchant Profiles

ProtectPay offers a proprietary interface that allows processing through several major gateways, processors and services providers. For a list of supported gateways please reference ProtectPay API Manual Appendix. Each Payment request requires that the submitter define the gateway upon which that payment should be attempted. This is done by supplying a merchant profile ID as part of the request. See Section 4.1 for ProtectPay API methods for MerchantProfileId Management.



- \*\*A MerchantProfileId only needs to be created once for each merchant account. Merchant profiles need not be created for each transaction.

### Multi-Currency Processing:

ProtectPay uses the ISO 4217 standard 3 character currency codes to represent various supported currencies.

\*\*If processing with Indonesian Rupiah it is important to note that this must be submitted as an integer representing SEN. 1 IDR = 100 SEN.

### 1.2 Best Practices

- When you transition from the ProPay testing environment to ProPay live servers, new API, authentication credentials and service endpoints will be provided. These should be defined and referenced throughout the developed software solution as to only have to update a single reference.

- Due to the nature of HTTP communication and Payment Processing it can take up to 1 minute before an API response is received. While this is rare, you should avoid setting timeout values lower. The ProtectPay API is designed to internally timeout and responds to an API request as such.
- When building a software solution, be sure to create a convenient means to view the actual HTTP request and response. If troubleshooting issues with ProPay Technical Support is necessary, the raw request and response are invaluable and will save time in isolating a root cause to an issue. This should also include a UTC timestamp to a resolution no less than HH:mm:ss.
- Before creating a PaymentMethodId the software solution should validate the card number against a Mod 10 check using the Luhn algorithm, and should verify that the card number submitted conforms to rules established for the card type selected. The developer should also validate the expiration data is not past due. When requesting PaymentMethodId transactions if the CVV will be passed the software should validate the entered value is the correct number of integers. This will improve the efficiency of the developed software by not making additional API requests that will return with these errors.
- Credit card transactions can take several seconds to process. This is caused by multiple variables with the gateway, processor, and issuer. There will be a wait during which a cardholder may become impatient. ProPay recommends that developers provide cardholders with a warning against clicking the back button on their browser while a payment method is processing. To prevent the possibility of identical duplicate transactions, ProPay recommends that developers generate a control that displays such a warning during the period of time it takes to receive a response.

## 2.0 Testing and Certification

To improve the customer experience, ProPay requires that developers test their software solutions before receiving credentials to process live transactions. Doing so ultimately improves the end-user experience so please plan accordingly and develop a timeline that provides for testing and certification against the ProPay Integration environment. Integrating a developed software solution to the ProPay web integration requires the following steps:

1. Request API credentials from your sales representative or account manager. By involving him or her in the process, Propay can provide you with guidance about the methods required for your project's scope.
2. Design, build, and test your solution using the ProtectPay integration environment.
3. Contact your Project Manager when you believe you are ready to certify. Your PM will go over your integration with you. (This is a relatively informal process, but one that ensures you've covered all your bases.)
4. Request Production (Live) Credentials from your Project Manager.

### Production URLs

The ProtectPay Production REST base URI: <https://api.propay.com/protectpay>

### Test URLs

The ProtectPay Integration REST base URI: <https://xmltestapi.propay.com/protectpay>

Live Credentials MUST be kept confidential

## 2.1 Troubleshooting and Technical Support

Your Project Manager acts as a technical resource during integration and will assist you with trouble shooting problems encountered while you work on your solution. In an effort to make this possible, you should be prepared to provide the following information when you encounter a problem during integration:

1. Timestamp of the incident (specify time zone)
  2. URI Requests are being made to
  3. HTTP Method being used
  4. XML/SOAP/JSON data passed to the URI
  5. XML/SOAP/REST/HTTP Response received.
- Despite all the best preparations, planning and testing there are occasions where errors can occur when transitioning from the testing systems to the live environment. Providing less information may result in a delay to any technical support questions regarding the Application Programming Interface. The ProPay Technical Support team can only assist in the troubleshooting of the API and not a client's software solution when undesired effects occur in a client's software solution when consuming the ProtectPay API.

### Limitations based on a supported gateway

- ProtectPay is works with multiple gateways over which ProPay has no control. As such there are instances where a gateway may return an error with a transaction passed to it from ProtectPay. These errors are indicated by the 200 series in Appendix A. If a transaction request returns a 200 series error ProPay technical support can only troubleshoot that the MerchantProfileId is setup properly according to the specifications found in Appendix B and, upon request, provide the raw request to and response from the gateway.
- Should a client require additional troubleshooting they should contact the Processor Gateway for an explanation of their specific failure. **ProPay Technical Support cannot troubleshoot non ProPay merchant account issues.**

## 3.0 Technical Integration

### Secure Socket Layer (SSL) and Transport Layer Security (TLS)

ProPay recognizes the importance of handling financial transactions in a secure manner and ensures that ProtectPay offers the best transmission security available. ProPay requires that ProtectPay API requests are transmitted using the latest SSL/TLS encryption practices. ProPay hosts the SSL/TLS certificate for this connection type and ProtectPay API method requests, regardless of method, will negotiate an SSL connection automatically over port 443.

### Representational State Transfer (REST) Interface

REST simplifies the way in which the ProtectPay API can be accessed. Combining a Base URI with mapped Resource URI elements and standard HTTP methods for many ProtectPay API methods further simplifies the integration process.

- When using the GET or DELETE HTTP methods, the API request does not require additional information to be passed.
- When using POST and PUT HTTP methods, information is sent in the form of JavaScript Object Notation (JSON) objects.
- The API will return a JSON object as a response to each API request regardless of which HTTP method was used. When submitting JSON objects in an API request, the Content-Type should be set to 'application/json' and the Content-Length field should be set to the length of the data.

### Resource URI and HTTP Methods

The ProtectPay REST API request URI is comprised of a Base URI with a Resource URI appended. A Resource URI may be used for multiple functions and differs based on the HTTP verb in the request.

**Host:** <https://xmltestapi.propay.com>

**Resource:** /protectpay/merchantprofiles

**HTTP Method:** PUT

**Request Endpoint:** PUT <https://xmltestapi.propay.com/protectpay/merchantprofiles>

### 3.1 Authentication

The REST interface uses Basic HTTP Authentication to authenticate API requests using the BillerId as the username and the Authentication Token as the password. This must be added to the HTTP header as the value of the 'Authorization' field.

Creating the Authorization Header value requires the following steps:

1. Combine the BillerID, a Colon, and the AuthToken (MyBillerId:MyAuthToken)
2. Convert the Result of Step 1 to an ASCII Byte Array
3. Base 64 Encode the Result of Step 2
4. Prepend "Basic " to the Result of Step 3
5. Add 'Authorization' as an HTTP header and set its value to the result of Step 4

#### Sample HTTP Header

HTTP Header Field	Value
Authorization	Basic TXICaWxsZXJJZDpNeUF1dGhUb2tlbg==
Content-Length	*Varies Depending on Length of Content submitted
Content-Type	application/json
Method	*Varies Depending on Method: GET, DELETE, PUT, POST

\* In the sample the BillerId = MyBillerId and the AuthenticationToken = MyAuthToken

## 3.2 Response

See ProtectPay API Appendix A for a list of response values returned by ProtectPay. ProtectPay transaction responses consist of two parts.

### API Request Result

The API Request Result is the result of the API method request itself-independent of any transaction request information. It is not to be confused with the transaction request response which indicates success or failure of the transaction request type (Auth, Capture, and Reversal). An API request failure indicates a problem with the request and the transaction request was not submitted to the Payment method issuer. The reason will be included in the corresponding API request result, value, code and message.

- API Request Response Value
- API Request Response Code
- API Request Response Message

### Transaction Request Result

The transaction details will be included only on a successful transaction request result. A transaction request result failure indicates the Payment Method issuer denied the transaction and the reason will be included in the corresponding value, code and message.

- Transaction Request Response Value
- Transaction Request Response Code
- Transaction Request Response Message
- Additional Transaction Details specific to the API method

### Handling Null values

# 4.0 Merchant Profile Management

## 4.1 Create a Merchant Profile

This method will create a MerchantProfileId which is a link between a client's ProtectPay credentials (Biller ID/Authentication Token) and an established processor merchant account. Values required to create a MerchantProfileId for US ProPay merchant accounts:

- **accountNum** – The ProPay merchant account number
- **certStr** – Authentication credential for ProPay API processing
- **termId** – Authentication credential for ProPay API processing

(Please review the ProtectPay API Appendix for information about values required to create a MPID for other supported gateways.)

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
PaymentProcessor	String	-	Required	Used to tell the ProtectPay system which type of link to a gateway should be created. See Appendix B for valid supported processors.
ProcessorData[]	Object	-	-	
ProcessorData[].ProcessorField	String	-	Required	Used in conjunction with value to describe the various fields necessary to create a link to a payment processor. See Appendix for valid processor fields
ProcessorData[].Value	String	20	Required	Used in conjunction with value to describe the various fields necessary to create a link to a payment processor.
ProfileName	String	50	Required	A name for the profile.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The ProtectPay API Method Response Code. See Appendix for possible returned Values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See Appendix for possible returned Messages
ProfileId	String	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/MerchantProfiles/
Method	PUT

### Sample JSON request data:

```
{
  "ProfileName":"505be90a-9256-45c5-85a5-5df6f62189c7",
  "PaymentProcessor":"LegacyProPay",
  "ProcessorData":[
    {
      "ProcessorField":"certStr",
      "Value":"90a933bc-07e1-4d33-9a97-084929113a22"
    },
    {
      "ProcessorField":"accountNum",
      "Value":"30312345"
    },
    {
      "ProcessorField":"termId",
      "Value":"113a22"
    }
  ]
}
```

### Sample JSON response data:

```
{
  "RequestResult":
  {
    "ResultValue":"SUCCESS",
    "ResultCode":"00",
    "ResultMessage":""
  },
  "ProfileId":769987
}
```

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## 4.2 Delete a Merchant Profile

- This method will remove a MerchantProfileId from ProtectPay. A MerchantProfileId that is deleted is no longer available for use by the owning BillerId.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountid	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
MerchantProfileid	Long	-	Required	Used to tell the ProtectPay system which profile to delete.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/MerchantProfiles/{ProfileId}/
Method	DELETE

Sample JSON request data:  
URI ONLY

Sample JSON response data:

```
{
  "ResultValue":"SUCCESS",
  "ResultCode":"00",
  "ResultMessage":""
}
```

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# 5.0 Payer Management

## 5.1 Create a Payer

This method will create a PayerId that will be assigned to, and is usable only by, the BillerAccountId used to create it.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
EmailAddress	String	100	Optional	Used to identify a payer.
ExternalId1	String	50	Optional	Used to identify a payer. This is a custom identifier rather than ProtectPay's. *If more than 50 characters are supplied the value will be truncated to 50
ExternalId2	String	50	Optional	Used to identify a payer. This is a custom identifier rather than ProtectPay's. *If more than 50 characters are supplied the value will be truncated to 50
Name	String	50	Required	Used to identify a payer.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See Appendix for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
ExternalAccountID	String	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it *This is referenced in other methods as 'PayerAccountID' or 'PayerID'

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/
Method	PUT

### Sample JSON request data:

```
{
  "Name":"John Smith",
  "EmailAddress":"email@email.com",
  "ExternalId1":"CustomerNumber12",
  "ExternalId2":"123456"
}
```

### Sample JSON response data:

```
{
  "ExternalAccountID":"2443795125315076",
  "RequestResult":
  {
    "ResultValue":"SUCCESS",
    "ResultCode":"00",
    "ResultMessage":""
  }
}
```

```
}  
}
```

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## 5.2 Edit a Payer

This method will update the information stored for a Payer.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
PayerAccountId	Long	16	Optional	The ID of the Payer to be edited
EmailAddress	String	100	Optional	Used to identify a payer.
ExternalId1	String	50	Optional	Used to identify a payer. This is a custom identifier rather than ProtectPay's.
ExternalId2	String	50	Optional	Used to identify a payer. This is a custom identifier rather than ProtectPay's.
Name	String	50	Required	Used to identify a payer.

\*External ID1 is NOT the PayerId but is the custom identifier of this PayerId

\*\*Sending an empty string differs from sending 'nothing' or null. Sending an empty string will update the PayerId Element to the empty string.

### Response values defined

Response Element	Type	Notes
ResultValue	String	The Method Response Value
ResultCode	String	The Method Response Code. See Protectpay Appendix A for possible returned Values
ResultMessage	String	The Method Response Message. See Protectpay Appendix A for possible returned Messages

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerID}/
Method	POST
Authorization	See section 3.2.1 REST Interface

Sample JSON request data:

```
{  
  "PayerAccountId":"4968897011139969",  
  "Name": "Edited Account Name",  
  "EmailAddress": null,  
  "ExternalId1": null,  
  "ExternalId2": null  
}
```

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Sample JSON response data:

```
{  
  "ResultValue": "SUCCESS",  
  "ResultCode": "00",  
  "ResultMessage": ""  
}
```

### 5.3 Delete a Payer

This method will remove a PayerId and all associated PaymentMethodIds from ProtectPay. A PayerId that is deleted is no longer available for use by the owning BillerId.

#### Request values defined:

Request Element	Type	Max Length	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
PayerAccountId	Long	16	Required	The Payer to delete.

#### Response values defined:

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPayAppendix A for possible returned Messages

#### How to call this method

Element	Value
Resource URI	/protectpay/Payers/{PayerID}/
Method	DELETE
Authorization	See section 3.2.1 REST Interface

Sample JSON request data:  
URI ONLY

Sample JSON response data:

```
{  
  "ResultValue": "SUCCESS",  
  "ResultCode": "00",  
  "ResultMessage": ""  
}
```

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## 6.0 Token Management

### 6.1 Create a Payment Method

This method will create a PaymentMethodId (token) that is owned by the specified PayerAccountId.

- This method will not return the obfuscated account number with the PaymentMethodId. ProPay recommends that developers store the obfuscated account number (first 6 and last 4) or just the last 4 number of the card with the token when it is returned. The ProtectPay PMI solutions will always return the Obfuscated Card number as the clients system will not have this data available.
- To avoid having sensitive data go through the client's system use of one of the ProtectPay Payer Management Interfaces.

Use of this method may necessitate your supplying documentation of PCI DSS compliance, or otherwise obtaining approval from a ProPay compliance representative. It is recommended that you use a Protectpay Payer Management Interface instead of this method.

#### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
AccountCountryCode	String	3	Optional * ACH Method Only	ISO 3166 standard country code value. *Required if payment method type is Checking or Savings or SEPA.
AccountName	String	50	Optional	The name on the account for a payment method.
AccountNumber	String	25	Required	This is the sensitive Primary Account Number of the payment method being added. In the case of a credit card, this would be the card number.
Address1	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
Address2	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
Address3	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
BankNumber	String	50	Optional	Routing number. Required if payment method type is Checking or Savings.
City	String	25	Optional	The address on the account for a payment method.
Country	String	3	Optional	ISO 3166 standard 3 character country codes.
Description	String	25	Required	Used to describe the payment method.
DuplicateAction	String		Optional	Use only if instructed. Determines action to take in the event that a new payment method duplicates an existing payment method. Valid values are: <ul style="list-style-type: none"> <li>▪ SaveNew -default if not specified</li> <li>▪ Error -return error if duplicate found</li> <li>▪ ReturnDup -causes payment method id to be returned when duplicate found</li> </ul>

Email	String	100	Optional	Email address of the payment method
ExpirationDate	String	4	Optional	The expiration date for a payment method. For a credit card these are submitted as 4 digit numeric values MMY. Expiration dates are optional but if the system needs an expiration date in order to process, it needs to be added here or supplied as an optional payment method override when performing a transaction. *Required if the Processor Gateway Requires an Expiration Date
PayerAccountId	String	16	Required	The PayerId under to create a payment method. *Must be in both URL and Request for REST
PaymentMethodType	String		Required	Used to tell ProtectPay what type of data is being submitted. Valid values are: <ul style="list-style-type: none"> <li>▪ Visa</li> <li>▪ MasterCard</li> <li>▪ AMEX</li> <li>▪ Discover</li> <li>▪ DinersClub</li> <li>▪ JCB</li> <li>▪ ProPayToProPay</li> <li>▪ Checking</li> <li>▪ Savings</li> <li>▪ Maestro (Only for use when connecting to PayVision Gateway)</li> <li>▪ CarteBancaire (Only for use when connecting to PayVision Gateway)</li> <li>▪ SEPA (Only for use when connecting to PayVision Gateway)</li> </ul>
Priority	Integer		Optional	Used to explicitly set an order for the ProcessPayment transaction.
Protected	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>▪ true</li> <li>▪ false</li> </ul> Payment methods set to 'true' cannot be deleted by a payer.
State	String	3	Optional	The address on the account for a payment method.
TelephoneNumber	String	20*	Optional	The phone number for the payment method. *10 digits for US numbers.
ZipCode	String	10*	Best Practice	The address on the account for a payment method. *9 digits for US cardholders.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The ProtectPay API Method Response Code. See Appendix for possible returned Values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See Appendix for possible returned Messages

PaymentMethodID	String	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
-----------------	--------	---

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### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerID}/PaymentMethods/
Method	PUT

#### Sample JSON request data (Credit Card):

```
{
  "PayerAccountId":"2936134241579401",
  "PaymentMethodType":"Visa",
  "AccountNumber":"4111111111111111",
  "ExpirationDate":"0819",
  "AccountCountryCode":"USA",
  "AccountName":"Janis Joplin",
  "BillingInformation":
  {
    "Address1":"123 ABC St",
    "Address2":"Apt. A",
    "Address3":null,
    "City":"Some Place",
    "Country":"USA",
    "Email":null,
    "State":"AK",
    "TelephoneNumber":null,
    "ZipCode":"12345"
  },
  "Description":"MyVisaCard",
  "Priority":0,
  "DuplicateAction":null,
  "Protected":false
}
```

#### Sample JSON response data (Credit Card):

```
{
  "PaymentMethodId":"0db51ab3-d413-4107-9174-73abed34724e",
  "RequestResult":
  {
    "ResultValue":"SUCCESS",
    "ResultCode":"00",
    "ResultMessage":""
  }
}
```

Sample JSON request data (ACH):

```
{
  "PayerAccountId":"2936134241579401",
  "PaymentMethodType":"Checking",
  "BankNumber":121000248,
  "AccountNumber":"1234567890",
  "ExpirationDate":null,
  "AccountCountryCode":"USA",
  "AccountName":"Janis Joplin",
  "BillingInformation":
  {
    "Address1":"123 ABC St",
    "Address2":"Apt. A",
    "Address3":null,
    "City":"Some Place",
    "Country":"USA",
    "Email":null,
    "State":"AK",
    "TelephoneNumber":null,
    "ZipCode":"12345"
  },
  "Description":"My Checking Account",
  "Priority":0,
  "DuplicateAction":null,
  "Protected":false
}
```

Sample JSON response data (ACH):

```
{
  "PaymentMethodId":"5eef2430-bcb4-45d3-b79d-1f560194b776",
  "RequestResult":
  {
    "ResultValue":"SUCCESS",
    "ResultCode":"00",
    "ResultMessage":""
  }
}
```

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## 6.2 Create a Payment Method with Encrypted Block Data

This method will create a PaymentMethodId (token) that is owned by the specified PayerAccountId from encrypted track data obtained from a supported ProtectPay swipe device.

- This method will not return the obfuscated account number with the PaymentMethodId. ProPay recommends that developers store the obfuscated account number (first 6 and last 4) or just the last 4 number of the card with the token when it is returned. The ProtectPay PMI solutions will always return the Obfuscated Card number as the clients system will not have this data available.
- Some of the ProPay approved swipe devices combine both credit card 'tracks' of data into one value. If this is the case, submit the entire encrypted block as EncryptedTrackData.
- Other devices provide two separate values and it requires both elements to successfully submit as EncryptedTrackData and Encrypted2TrackData

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
AccountCountryCode	String	3	Required*	ISO 3166 standard 3 character country codes.
AccountName	String	50	Optional	The name on the account for a payment method.
Address1	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
Address2	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
Address3	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
City	String	25	Optional	The address on the account for a payment method.
Country	String	3	Optional	ISO 3166 standard 3 character country codes.
Description	String	25	Required	Used to describe the payment method.
DeviceType	String		Required	Valid values are: <ul style="list-style-type: none"> <li>▪ IdTechUniMag</li> <li>▪ MagTekFlash</li> <li>▪ MagTekM20</li> <li>▪ MagTekADynamo</li> <li>▪ MagTekDynamag</li> <li>▪ RoamData</li> </ul>
DuplicateAction	String		Optional	Use only if instructed. Determines action to take in the event that a new payment method duplicates an existing payment method. Valid values are: <ul style="list-style-type: none"> <li>▪ SaveNew -default if not specified</li> <li>▪ Error -return error if duplicate found</li> <li>▪ ReturnDup -causes payment method id to be returned when duplicate found</li> </ul>

Email	String	100	Optional	Email address of the payment method
EncryptedTrack2Data	Base64 String		**	Encrypted data as pulled from the ProPay approved encrypted swipe device.
EncryptedTrackData	Base64 String		**	Encrypted data as pulled from the ProPay approved encrypted swipe device.
KeySerialNumber	Base64 String		Required	This value will be obtained from the ProPay supported device.
PayerAccountId	String	16	Required	The PayerId to create a payment method under. *Must be in both URL and Request for REST
Priority	Integer		Optional	Used to explicitly set an order for the ProcessPayment transaction.
Protected	Boolean		Optional	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Payment methods set to 'true' cannot be deleted by a payer.
State	String	3	Optional	The address on the account for a payment method.
TelephoneNumber	String	20*	Optional	The phone number for the payment method. *10 digits for US numbers.
ZipCode	String	10*	Optional	The address on the account for a payment method. *9 digits for US cardholders.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
PaymentMethodID	String	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerID}/PaymentMethods/
Method	POST

### Sample JSON request data:

```
{
  "PayerAccountId":"2105876672904426",
  "EncryptedTrackData":
  {
    "EncryptedTrackData":"7W0pjXRuLIZxEE6ZrHJKHZjK9Yyxfi3Gf56qZxwYCjCU5isNKya/TKiyNcchQP.4rZw9z2loPo05vE2XLag==",
    "EncryptedTrack2Data":"acUx7zcRE8AhyJKZIaOVAXFDQbvO4LRFw/qBjvUz3unR0HWgu6LKQ=:}
    "DeviceType":"MagTekDynamag",
    "KeySerialNumber":"kBAkCwBgHQAXA=="
  },
  "AccountName":"TestAccount",
  "BillingInformation":
  {
    "Address1":"3400 N Ashton Blvd",
    "Address2":"Suite 200",
    "Address3":null,
    "City":"Lehi",
    "State":"UT",
    "ZipCode":"84043",
    "Country":"USA",
    "TelephoneNumber":"801-341-5600",
    "Email":"test@test.com"
  },
  "Description":"Test Payment method",
  "Priority":0,
  "DuplicateAction":"SaveNew",
  "AccountCountryCode":"USA",
  "Protected":true
}
```

### Sample JSON response data:

```
{
  "PaymentMethodId":"58743a31-f1c0-4724-83eb-6b44328b1083",
  "RequestResult":
  {
    "ResultValue":"SUCCESS",
    "ResultCode":"00",
    "ResultMessage":""
  }
}
```

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### 6.3 Edit a Payment Method

This method is used to edit a Payer's Payment Method.

- Account Numbers cannot be edited by the method. For security purposes a PaymentMethodId must be deleted and recreated with the modified account number.
- Sending an empty string is not the same as sending 'nothing' or null. Sending an empty string will update the PaymentMethodId Element to an empty string.

#### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
AccountName	String	50	Optional	The name on the account for a payment method.
Address1	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
Address2	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
Address3	String	50	Optional	The address on the account for a payment method. *Max length is 40 for multi-currency transactions.
BankAccountType	String		Optional	Valid values are: <ul style="list-style-type: none"> <li>▪ Checking</li> <li>▪ Savings</li> <li>▪ LoanCredit</li> <li>▪ GeneralLedger</li> <li>▪ SEPA (Only for use when connecting to PayVision Gateway)</li> </ul>
City	String	25	Optional	The address on the account for a payment method.
Country	String	3	Optional	ISO 3166 standard country code value. Current allowed values are:
Description	String	25	Optional	Used to describe the payment method.
Email	String	100	Optional	The email address for the payment method.
ExpirationDate	String	4	Optional	The expiration date for a payment method. For a credit card these are submitted as 4 digit numeric values MMY. Expiration dates are optional but if the system needs an expiration date in order to process, it needs to be added here or supplied as an optional payment method override when performing a transaction.
PayerAccountId	String	16	Required	Both payer and payment method must be specified to ensure the correct payment method is edited. *Must be in both URL and Request
PaymentMethodID	String	36	Required	Both payer and payment method must be specified to ensure the correct payment method edited. *Must be in both URL and Request for REST

Protected	Boolean	5	Required	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Payment methods set to 'true' cannot be deleted by a payer.
State	String	3	Optional	The address on the account for a payment method.
TelephoneNumber	String	20*	Optional	The phone number for the payment method. *10 digits for US numbers.
ZipCode	String	10*	Optional	The address on the account for a payment method. *9 digits for US cardholders.

### ACH-specific values

Request Element	Type	Max	Required	Notes
Description	String	25	Optional	Used to describe the payment method.
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillAccountid	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
AccountName	String	50	Optional	The name on the account for a payment method.
Address1	String	50	Optional	The address on the account for a payment method.
Address2	String	50	Optional	The address on the account for a payment method.
Address3	String	50	Optional	The address on the account for a payment method.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See Protectpay Appendix A for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerID}/PaymentMethods/{PaymentMethodID}/
Method	POST
Authorization	See section 3.2.1 REST Interface

### Sample JSON request data (Credit Card):

```
{
  "PayerAccountId":"5823760912097888",
  "PaymentMethodId":"a4811b70-392e-45b3-93cf-b724b6e3b633",
  "ExpirationDate":"0820",
  "AccountName":"Janis Joplin",
  "BankAccountType":null,
  "BillingInformation":
  {
    "Address1":"321 ABC St",
    "Address2":"Apt. A",
    "Address3":null,
    "City":null,
    "Country":null,
    "Email":null,
    "State":null,
    "TelephoneNumber":null,
    "ZipCode":null
  },
  "Description":null,
  "Priority":null,
  "AccountCountryCode":null,
  "Protected":null
}
```

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### Sample JSON response data (Credit Card)

```
{
  "ResultValue":"SUCCESS",
  "ResultCode":"00",
  "ResultMessage":""
}
```

## 6.4 Delete a Payment Method

This method will remove a PaymentMethodId that is owned by a PayerId from ProtectPay. A PaymentMethodId that is deleted is no longer available for use by the owning PayerId.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
PayerAccountId	String	16	Required	Both payer and payment method must be specified to ensure the correct payment method is deleted.
paymentID	String	36	Required	Valid value is a GUID. Both payer and payment method must be specified to ensure the correct payment method is deleted

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See Appendix for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See Appendix for possible returned Messages

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerID}/PaymentMethods/{PaymentID}/
Method	DELETE

Sample JSON request data:  
URI ONLY

Sample JSON response data:

```
{
  "ResultValue":"SUCCESS",
  "ResultCode":"00",
  "ResultMessage":""
}
```

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# 7.0 Transaction Processing

## 7.1 Authorize a Transaction

This method will attempt to authorize an amount against a particular PaymentMethodId. If the transaction is not intended to be captured then this method should be followed by method 4.6.1 'Void a Transaction' to release the cardholder's funds.

- Sending override Elements will override the information stored with the PaymentMethodId and/or PayerId with the supplied values during the transaction request to the issuer.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
IsRecurringPayment	Boolean	5	Required* REST ONLY	Valid values are: <ul style="list-style-type: none"> <li>▪ true</li> <li>▪ false</li> </ul> If set to false this transaction will not be marked recurring at the issuer
CreditCardOverrides	Object	-	Optional	Used to override the information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing	Object	-	Optional	Used to override the Billing information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing.Address1	String	50	Optional	Used to override the Address1 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address2	String	50	Optional	Used to override the Address2 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address3	String	50	Optional	Used to override the Address3 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.City	String	25	Optional	Used to override the City stored with the PaymentMethodId
CreditCardOverrides.Billing.Country	String	3	Optional	Used to override the Country stored with the PaymentMethodId *Must be ISO 3166 standard 3 character country code.
CreditCardOverrides.Billing.Email	String	100	Optional	Used to override the Email address stored with the PaymentMethodId
CreditCardOverrides.Billing.State	String	3	Optional	Used to override the State stored with the PaymentMethodId
CreditCardOverrides.Billing.TelephoneNumber	Integer	20*	Optional	Used to override the Telephone Number stored with the PaymentMethodId *10 digits for US numbers.
CreditCardOverrides.Billing.ZipCode	String	10	Optional	Used to override the ZipCode stored with the PaymentMethodId
CreditCardOverrides.CVV	String	4	Optional	CVV code. If submitting the CVV code with this transaction request it must be passed in the CreditCardOverrides Object

				*ProtectPay will not store this value.
CreditCardOverrides.ExpirationDate	String	4	Optional	Used to override the Expiration Date stored with the PaymentMethodId For a credit card these are submitted as 4 digit numeric values MMY.
CreditCardOverrides.FullName	String	50	Optional	Used to override the Account Name stored with the PaymentMethodId
PayerOverrides	Object	-	Optional	
PayerOverrides.IpAddress	String	15	Optional	IP address as read from cardholder browser session.
Transaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Invoice	String	50	Optional	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
IsDebtRepayment	Boolean	5	Optional	Valid Values are: <ul style="list-style-type: none"> <li>▪ True</li> <li>▪ False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.
MerchantProfileId	Int(64)	Signed Int(64)	Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
PaymentMethodID	GUID	36	Required	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
IsQuasiCash	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul> If the transaction is IsQuasiCash then this needs to be set to true.
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.
TransactionMerchantDescriptor	String	25	Optional	Letters, numbers and spaces but no special characters are allowed. This value will appear on the cardholder's credit card statement. Full descriptor length is 29, but the first 4 characters are consumed by a

				prefix that is set by ProPay. (Either identifies ProPay, or the integrated partner.)
Tokenization.TokenRequestorID	String		Required*	This field contains eleven digits that uniquely identify the pairing of token requestor with the token domain. It is assigned by the token service provider and is unique within the token vault. Required for tokenization.
Tokenization.TAAV	String		Required*	This would be the encrypted string (converted to HEX) that goes into G3v017 in the CAVV Revised field. The format is a 40-digit A/N HEX value.  * If this is not provided, then the DTVV should be provided.  Note: VISA's recommendation is to use this value instead of the DTVV. Required for tokenization
Tokenization.Token	String		Required*	This is the same as PAN (surrogate to PAN); 13-19 digits. This will be provided by the Token Service Provider. Required for tokenization
Tokenization.DTVV	String		Required*	The Dynamic Token Verification Value (DTVV) exists for Visa merchants that process tokenized e-commerce transactions. This will be provided by the Token Service Provider. <b>Note: VISA's recommendation is to use TAVV instead of the DTVV.</b> Required for tokenization
Tokenization.TokenExpiryDate	String		Required*	This is like card expiry date . Required for tokenization
ExternalTransactionIdentifier	String	15	Required*	Data returned in this field is recorded and submitted as part of the data capture settlement format.. Required for tokenization
ApplePay.TokenRequestorID	String		Required	This field contains eleven digits that uniquely identify the pairing of token requestor with the token domain. It is assigned by the token service provider and is unique within the token vault.
ApplePay.Token	String		Required	This is the same as PAN (surrogate to PAN); 13-19 digits. This will be provided by the Token Service Provider.
ApplePay.TAAV	String		Required	This would be the encrypted string (converted to HEX) that goes into G3v017 in the CAVV Revised field. The format is a 40-digit A/N HEX value.
ApplePay.TokenExpiryDate	String		Required	This is like card expiry date

## Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See Appendix for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See Appendix for possible returned Messages
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See Appendix for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See Appendix for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

## How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerID}/PaymentMethods/AuthorizedTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "PaymentMethodID":"de1ae2bd-c194-437c-ba9a-cb0730bd92d1",
  "IsRecurringPayment":false,

  "CreditCardOverrides":
  {
    "FullName":"Test User",
    "ExpirationDate":"1014",
    "CVV":"999",
    "Billing":
    {
      "Address1":"3400 N Ashton Blvd",
      "Address2":"Suite 200",
      "Address3":"","
      "City":"Lehi",
      "State":"UT",
      "ZipCode":"84043",
      "Country":"USA",
      "TelephoneNumber":"8012223333",
      "Email":"test@user.com"
    }
  },
  "PayerOverrides":
  {
    "IpAddress":"127.0.0.1"
  },
  "MerchantProfileId":123456,
  "PayerAccountId":"5823760912097888",
  "Amount":300,
  "CurrencyCode":"USD",
  "Invoice":"Test Invoice",
  "Comment1":"Authorize Comment 1",
  "Comment2":"Authorize Comment 2",
  "IsDebtRepayment":"false",
  "IsQuasiCash":"false"
}
```

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### Sample JSON response data:

```
{
  "Transaction":
  {
    "AVSCode":"T",
    "AuthorizationCode":"A11111",
    "CurrencyConversionRate":1,
    "CurrencyConvertedAmount":300,
    "CurrencyConvertedCurrencyCode":"USD",
    "ResultCode":
    {
      "ResultValue":"SUCCESS",
      "ResultCode":"00",
      "ResultMessage":""
    },
    "TransactionHistoryId":"7897264",
    "TransactionId":"519",
    "TransactionResult":"Success",
    "CVVResponseCode":"M",
    "GrossAmt":300,
    "NetAmt":0,
    "PerTransFee":0,
    "Rate":0,
    "GrossAmtLessNetAmt":0
  },
  "RequestResult":
  {
    "ResultValue":"SUCCESS",
    "ResultCode":"00",
    "ResultMessage":""
  }
}
```

## 7.2 Authorize a Transaction (Flag request as recurring payment)

This method will attempt to authorize an amount against a particular PaymentMethodId. This transaction will be specially flagged as recurring when it reaches the cardholder's bank.

- Sending override Elements will override the information stored with the PaymentMethodId and/or PayerId with the supplied values during the transaction request to the issuer.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
IsRecurringPayment	Boolean	5	Required* REST ONLY	Valid values are: <ul style="list-style-type: none"> <li>▪ true</li> <li>▪ false</li> </ul> If set to true this transaction will be marked recurring at the issuer
CreditCardOverrides	Object	-	Optional	Used to override the information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing	Object	-	Optional	Used to override the Billing information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing.Address1	String	50	Optional	Used to override the Address1 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address2	String	50	Optional	Used to override the Address2 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address3	String	50	Optional	Used to override the Address3 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.City	String	25	Optional	Used to override the City stored with the PaymentMethodId
CreditCardOverrides.Billing.Country	String	3	Optional	Used to override the Country stored with the PaymentMethodId *Must be ISO 3166 standard 3 character country code.
CreditCardOverrides.Billing.Email	String	100	Optional	Used to override the Email address stored with the PaymentMethodId
CreditCardOverrides.Billing.State	String	3	Optional	Used to override the State stored with the PaymentMethodId
CreditCardOverrides.Billing.TelephoneNumber	Integer	20*	Optional	Used to override the Telephone Number stored with the PaymentMethodId *10 digits for US numbers.
CreditCardOverrides.Billing.ZipCode	String	10	Optional	Used to override the ZipCode stored with the PaymentMethodId
CreditCardOverrides.CVV	String	4	Optional	CVV code. If submitting the CVV code with this transaction request it must be passed in the CreditCardOverrides Object *ProtectPay will not store this value.
CreditCardOverrides.ExpirationDate	String	4	Optional	Used to override the Expiration Date stored with the PaymentMethodId For a credit card these are submitted as 4 digit numeric values MMY.
CreditCardOverrides.FullName	String	50	Optional	Used to override the Account Name stored with the PaymentMethodId
PayerOverrides	Object	-	Optional	

PayerOverrides.IpAddress	String	15	Optional	IP address as read from cardholder browser session.
PaymentMethodID	GUID	36	Required	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
Transaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Invoice	String	50	Optional	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
MerchantProfileId	Integer		Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
PayerAccountID	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
IsDebtRepayment	Boolean	5	Optional	Valid Values are: <ul style="list-style-type: none"> <li>▪ True</li> <li>▪ False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.
FraudDetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FraudDetectorsObject
IsQuasiCash	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul> If the transaction is IsQuasiCash then this needs to be set to true.
FraudDetectors.FraudDetectorProviderName	String		Required*	If using FraudDetectors Object this Element is required.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank.

		*Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerID}/PaymentMethods/AuthorizedTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "PaymentMethodID":"de1ae2bd-c194-437c-ba9a-cb0730bd92d1",
  "IsRecurringPayment": true,
  "CreditCardOverrides":
  {
    "FullName":"Test User",
    "ExpirationDate":"1014",
    "CVV":"999",
    "Billing":
    {
      "Address1":"3400 N Ashton Blvd",
```

### Sample JSON response data:

```
{
  "Transaction":
  {
    "AVSCode": "T",
    "AuthorizationCode": "A11111",
    "CurrencyConversionRate": 1,
    "CurrencyConvertedAmount": 300,
    "CurrencyConvertedCurrencyCode": "USD",
    "ResultCode":
    {
      "ResultValue": "SUCCESS",
```

```
"Address2": "Suite 200",
"Address3": "",
"City": "Lehi",
"State": "UT",
"ZipCode": "84043",
"Country": "USA",
"TelephoneNumber": "8012223333",
"Email": "test@user.com"
}
},
"PayerOverrides":
{
  "IpAddress": "127.0.0.1"
},
"ShouldCapture": false,
"MerchantProfileId": "123456",
"PayerAccountId": "5823760912097888",
"Amount": 300,
"CurrencyCode": "USD",
"Invoice": "Test Invoice",
"Comment1": "Authorize Comment 1",
"Comment2": "Authorize Comment 2",
"IsDebtRepayment": false,
"IsQuasiCash": false
```

```
"ResultCode": "00",
"ResultMessage": ""
},
"TransactionHistoryId": "7897264",
"TransactionId": "519",
"TransactionResult": "Success",
"CVVResponseCode": "M",
"GrossAmt": 300,
"NetAmt": 0,
"PerTransFee": 0,
"Rate": 0,
"GrossAmtLessNetAmt": 0
},
"RequestResult":
{
  "ResultValue": "SUCCESS",
  "ResultCode": "00",
  "ResultMessage": ""
}
}
```

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### 7.3 Authorize a Transaction using Encrypted Block Data

This method will attempt to authorize an amount against Encrypted Track Data from a supported ProtectPay swipe device.

- Set 'ShouldCapture' to false when you do not wish to save a Payment Method.

Please see ProtectPay API Appendix for a list of Encrypting Device Types and the data submitted to the ProtectPay API.

#### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
AccountName	String	50	Optional	Cardholder name. Will be passed on to gateway if gateway accepts it.
Address1	String	50	Optional	Cardholder address. *Max length is 40 for multi-currency transactions.
Address2	String	50	Optional	Cardholder address. *Max length is 40 for multi-currency transactions.
City	String	25	Optional	Cardholder address
Country	String	3	Optional	Cardholder address. *Must be ISO 3166 standard 3 character country code.
Description	String	25	Required	Description for the new stored payment method.
Email	String	100	Optional	Email address for payment method
State	String	3	Optional	Cardholder address
TelephoneNumber	String	20*	Optional	The phone number for the payment method. *10 digits for US numbers.
ZipCode	String	10	Optional	Cardholder address
ShouldCapture	Boolean		Required	Set this value to false for Authorization Only
ShouldCreatePaymentMethod	Boolean		Required	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Determines if the data should be stored as a PaymentMethodId after processing it.
CreatePaymentMethodDuplicateAction	String			Use only if instructed. Determines action to take in the event that a new payment method duplicates an existing payment method. Valid values are: <ul style="list-style-type: none"> <li>SaveNew -default if not specified</li> <li>Error -return error if duplicate found</li> <li>ReturnDup -causes payment method id to be returned when duplicate found</li> </ul>
Priority	Integer		Optional	Do not use

EncryptedTrackData	Object	-	Required	
EncryptedTrackData .DeviceType	String		Required	Valid Values are: <ul style="list-style-type: none"> <li>MagTekM20</li> <li>MagTekFlash</li> <li>IdTechUniMag</li> <li>Manual</li> <li>MagTekADynamo</li> <li>MagTekDynamag</li> <li>RoamData</li> </ul> See Appendix.2 for additional details
EncryptedTrackData KeySerialNumber	Base64 String		Required	This value will be obtained from the ProPay supported device.
EncryptedTrackData.EncryptedTrack2Data	Base64 String		**	Encrypted data as pulled from the ProPay approved encrypted swipe device.
EncryptedTrackData.EncryptedTrackData	Base64 String		**	Encrypted data as pulled from the ProPay approved encrypted swipe device.
Transaction	Object	-	Required	Contains Transaction Information. *REST passes the transaction values directly and not nested.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Invoice	String	50	Optional	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
IsDebtRepayment	Boolean	5	Optional	Valid Values are: <ul style="list-style-type: none"> <li>True</li> <li>False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.
MerchantProfileId	Integer		Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FraudDetectorsObject
IsQuasiCash	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>true</li> </ul>

				<ul style="list-style-type: none"> <li>false</li> </ul> <p>If the transaction is IsQuasiCash then this needs to be set to true.</p>
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.
TransactionMerchantDescriptor	String	25	Optional	Letters, numbers and spaces but no special characters are allowed. This value will appear on the cardholder's credit card statement. Full descriptor length is 29, but the first 4 characters are consumed by a prefix that is set by ProPay. (Either identifies ProPay, or the integrated partner.)
Tokenization.TokenRequestorID	String		Required*	This field contains eleven digits that uniquely identify the pairing of token requestor with the token domain. It is assigned by the token service provider and is unique within the token vault. Required for tokenization.
Tokenization.TAAV	String		Required*	This would be the encrypted string (converted to HEX) that goes into G3v017 in the CAVV Revised field. The format is a 40-digit A/N HEX value.  * If this is not provided, then the DTVV should be provided.  Note: VISA's recommendation is to use this value instead of the DTVV. Required for tokenization
Tokenization.Token	String		Required*	This is the same as PAN (surrogate to PAN); 13-19 digits. This will be provided by the Token Service Provider. Required for tokenization
Tokenization.DTVV	String		Required*	The Dynamic Token Verification Value (DTVV) exists for Visa merchants that process tokenized e-commerce transactions. This will be provided by the Token Service Provider. Note: VISA's recommendation is to use TAVV instead of the DTVV. Required for tokenization
Tokenization.TokenExpiryDate	String		Required*	This is like card expiry date . Required for tokenization
ExternalTransactionIdentifier	String	15	Required*	Data returned in this field is recorded and submitted as part of the data capture settlement format.. Required for tokenization

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See Appendix for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See Appendix for possible returned Messages
CaptureResult	Object	Returns Null for Authorize

PaymentMethodId	GUID	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrency Code	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See Appendix for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See Appendix for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/Payers/{payerId}/PaymentMethods/AuthorizedAndCapturedTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "EncryptedTrackData":
  {
    "EncryptedTrackData": "\xfXe+Qv92/8lugmY3bBZIT988Nxlw4e28Trvr/O0d9yRBOuy5
    cHT4ORij5kte5G01HKCj8Yzxii/HhFxdfugwTvXKkgjCiympdVnqb32YD3NHCjnx5rS
```

### Sample JSON response data:

```
{
  "AuthorizeResult":
  {
    "Transaction":
    {
```

```

    U3M+o5NojdA0h11nPCjyOYdVHIPHf8oxd/ch4Rss8",
    "EncryptedTrack2Data":"Uvgy3fK68GahZsC0QEYpFGIXkQVKvI0PnFzQeIVwAF3Psb
    BgS6GDd61R8dfxAGTwEFUBs0mniHHgK1ht4CHUthXluy0+t/TW3FJHpVxPhWD8Eu7j
    oweYOLyM+i9NV1WVP/Ghg5PQjrr3a5IC+1k31NbtRk+dOn0a",
    "DeviceType": "RoamData",
    "KeySerialNumber":"kBAkCwBgHQAXA=="
  },
  "ShouldCapture":false,
  "ShouldCreatePaymentMethod":true,
  "StorageInformation":null,
  "CreatePaymentMethodDuplicateAction":"ReturnDup",
  "MerchantProfileId":"0",
  "PayerAccountId":"7184083347625218",
  "Amount":300,
  "CurrencyCode":"USD",
  "Invoice":"Test Invoice",
  "Comment1":"Authorize Comment 1",
  "Comment2":"Authorize Comment 2",
  "IsQuasiCash": "false"
}

"AVSCode": "NotPresent",
"AuthorizationCode": "",
"CurrencyConversionRate": 1,
"CurrencyConvertedAmount": 300,
"CurrencyConvertedCurrencyCode": "USD",
"ResultCode":
{
  "ResultValue": "FAILURE",
  "ResultCode": "201",
  "ResultMessage": "InvalidExpDate"
},
"TransactionHistoryId": "8392043",
"TransactionId": "0",
"TransactionResult": "Declined",
"CVVResponseCode": "NotPresent",
"GrossAmt": null,
"NetAmt": null,
"PerTransFee": null,
"Rate": null,
"GrossAmtLessNetAmt": null
},
"RequestResult":
{
  "ResultValue": "FAILURE",
  "ResultCode": "201",
  "ResultMessage": "InvalidExpDate"
}
},
"CaptureResult": null,
"PaymentMethodId": "4945f470-1379-4cab-8e2a-ebf3fc424f75",
}

```

## 7.4 Authorize a transaction from an external provider

This method will attempt to authorize an amount against a particular payment method via an external payment processor.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
FraudDetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FraudDetectorsObject
FraudDetectors.FraudDetectorProviderName	String		Required*	If using FraudDetectors Object this Element is required.
PaymentMethodLookup	Object	-	Required	Contains the External system information
PaymentMethodLookup.Identifier	String		Required	Specifies the payment method ID.

PaymentMethodLookup.System	Integer		Required	Specifies the external system to use. Valid values are: <ul style="list-style-type: none"> <li>▪ None</li> <li>▪ Visa Checkout</li> </ul>
PaymentMethodLookup.Verifier	String		Optional	Specifies the external verifier
PaymentMethodLookup.CheckoutResourceUrl	String		Optional	Specifies the external verifier resource URI
Transaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
MerchantProfileId	Int(64)	Signed Int(64)	Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Invoice	String	50	Optional	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
IsDebtRepayment	Boolean	-	Optional	Valid Values are: <ul style="list-style-type: none"> <li>▪ True</li> <li>▪ False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
IsQuasiCash	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul> If the transaction is IsQuasiCash then this needs to be set to true.
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.
Tokenization.TokenRequestorID	String		Required*	This field contains eleven digits that uniquely identify the pairing of token requestor with the token domain. It is assigned by the token service provider and is unique within the token vault. Required for tokenization.
Tokenization.TAAV	String		Required*	This would be the encrypted string (converted to HEX) that goes into G3v017 in the CAVV Revised field. The format is a 40-digit A/N HEX value.  * If this is not provided, then the DTVV should be provided.  Note: VISA's recommendation is to use this value instead of the DTVV. Required for tokenization

Tokenization.Token	String		Required*	This is the same as PAN (surrogate to PAN); 13-19 digits. This will be provided by the Token Service Provider. Required for tokenization
Tokenization.DTVV	String		Required*	The Dynamic Token Verification Value (DTVV) exists for Visa merchants that process tokenized e-commerce transactions This will be provided by the Token Service Provider. Note: VISA's recommendation is to use TAVV instead of the DTVV. Required for tokenization
Tokenization.TokenExpiryDate	String		Required*	This is like card expiry date . Required for tokenization
ExternalTransactionIdentifier	String	15	Required*	Data returned in this field is recorded and submitted as part of the data capture settlement format.. Required for tokenization

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values

Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/ExternalPaymentMethods/ProcessedTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "Amount":12300,
  "Comment1":"comment one",
  "Comment2":"comment two",
  "CurrencyCode":"USD",
  "Invoice":"69c73c5fbec9432ca7071ff90ac5ea35",
  "IsAuthorizationOnly":true,
  "MerchantProfileId":1234,
  "IsQuasiCash":"false"
  "PaymentMethodLookup":
  {
    "Identifier":"4066401690744142168",
    "System":1
  }
}
```

### Sample JSON response data:

```
{
  "Transaction":
  {
    "AVSCode": "T",
    "AuthorizationCode": "A11111",
    "CurrencyConversionRate": 1,
    "CurrencyConvertedAmount": 12300,
    "CurrencyConvertedCurrencyCode": "USD",
    "ResultCode":
    {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
    },
    "TransactionHistoryId": "8392090",
    "TransactionId": "384",
    "TransactionResult": "Success",
    "CVVResponseCode": "NotPresent",
    "GrossAmt": 12300,
    "NetAmt": 11944,
    "PerTransFee": 25,
    "Rate": 2.69,
    "GrossAmtLessNetAmt": 356
  },
  "RequestResult":
  {
    "ResultValue": "SUCCESS",
    "ResultCode": "00",
    "ResultMessage": ""
  }
}
```

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## 7.5 Process a Payment

This method will attempt to process a complete payment (authorize and capture) against a particular PaymentMethodId.

- Sending override Elements will override the information stored with the PaymentMethodId and/or PayerId with the supplied values during the transaction request to the issuer.
- This method is used for both ACH and Credit Card Transactions

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
IsRecurringPayment	Boolean	5	Required* REST ONLY	Valid values are: <ul style="list-style-type: none"> <li>▪ true</li> <li>▪ false</li> </ul> If set to false this transaction will not be marked recurring at the issuer
AchOverrides	Object	-	ACH Only	Used to override the information stored with the ACH PaymentMethodId type
AchOverrides.BankAccountType	String	1	Optional	Valid values are: <ul style="list-style-type: none"> <li>▪ Checking</li> <li>▪ Savings</li> <li>▪ LoanCredit</li> <li>▪ GeneralLedger</li> <li>▪ SEPA (Only for use when connecting to PayVision Gateway)</li> </ul>
AchOverrides.MandateDate	DateTime	yyyy-MM-dd	Optional*	*If SEPA then value is required.
AchOverrides.MandateDateSigned	DateTime	yyyy-MM-dd	Optional*	*If SEPA then value is required.
AchOverrides.MandateId	String	35	Optional*	*If SEPA then value is required.
AchOverrides.SecCode	String	3	Required*	Standard Entry Class Code. Valid values are: <ul style="list-style-type: none"> <li>▪ PPD</li> </ul>

				<ul style="list-style-type: none"> <li>▪ CCD</li> <li>▪ WEB</li> <li>▪ TEL</li> </ul> <p>*If the PaymentMethodId type is an ACH type this value is required</p>
CreditCardOverrides	Object	-	Optional	Used to override the information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing	Object	-	Optional	Used to override the Billing information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing.Address1	String	50	Optional	Used to override the Address1 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address2	String	50	Optional	Used to override the Address2 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address3	String	50	Optional	Used to override the Address3 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.City	String	25	Optional	Used to override the City stored with the PaymentMethodId
CreditCardOverrides.Billing.Country	String	3	Optional	Used to override the Country stored with the PaymentMethodId *Must be ISO 3166 standard 3 character country code.
CreditCardOverrides.Billing.Email	String	100	Optional	Used to override the Email address stored with the PaymentMethodId
CreditCardOverrides.Billing.State	String	3	Optional	Used to override the State stored with the PaymentMethodId
CreditCardOverrides.Billing.TelephoneNumber	Integer	20*	Optional	Used to override the Telephone Number stored with the PaymentMethodId *10 digits for US numbers.
CreditCardOverrides.Billing.ZipCode	String	10	Optional	Used to override the ZipCode stored with the PaymentMethodId
CreditCardOverrides.CVV	String	4	Optional	CVV code. If submitting the CVV code with this transaction request it must be passed in the CreditCardOverrides Object *ProtectPay will not store this value.
CreditCardOverrides.ExpirationDate	String	4	Optional	Used to override the Expiration Date stored with the PaymentMethodId For a credit card these are submitted as 4 digit numeric values MMY. *Required if the Processor Gateway Requires an Expiration Date
CreditCardOverrides.FullName	String	50	Optional	Used to override the Account Name stored with the PaymentMethodId
PayerOverrides	Object	-	Optional	
PayerOverrides.IpAddress	String	15	Optional	IP address as read from cardholder browser session.
PaymentMethodID	GUID	36	Required	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
Transaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested.

Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Invoice	String	50	Optional*	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute. If SEPA then value is required.
IsDebtRepayment	Boolean	5	Optional	Valid Values are: <ul style="list-style-type: none"> <li>▪ True</li> <li>▪ False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.
MerchantProfileId	Int(64)	Signed Int(64)	Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
FraudDetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FraudDetectorsObject
IsQuasiCash	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul> If the transaction is IsQuasiCash then this needs to be set to true.
FraudDetectors.FraudDetectorProviderName	String		Required*	If using FraudDetectors Object this Element is required.
TransactionMerchantDescriptor	String	25	Optional	Letters, numbers and spaces but no special characters are allowed. This value will appear on the cardholder's credit card statement. Full descriptor length is 29, but the first 4 characters are consumed by a prefix that is set by ProPay. (Either identifies ProPay, or the integrated partner.)
Tokenization.TokenRequestorID	String		Required*	This field contains eleven digits that uniquely identify the pairing of token requestor with the token domain. It is assigned by the token service provider and is unique within the token vault. Required for tokenization.
Tokenization.TAAV	String		Required*	This would be the encrypted string (converted to HEX) that goes into G3v017 in the CAVV Revised field. The format is a 40-digit A/N HEX value.  * If this is not provided, then the DTVV should be provided.

				Note: VISA's recommendation is to use this value instead of the DTVV. Required for tokenization
Tokenization.Token	String		Required*	This is the same as PAN (surrogate to PAN); 13-19 digits. This will be provided by the Token Service Provider. Required for tokenization
Tokenization.DTVV	String		Required*	The Dynamic Token Verification Value (DTVV) exists for Visa merchants that process tokenized e-commerce transactions. This will be provided by the Token Service Provider. Note: VISA's recommendation is to use TAVV instead of the DTVV. Required for tokenization
Tokenization.TokenExpiryDate	String		Required*	This is like card expiry date . Required for tokenization
ExternalTransactionIdentifier	String	15	Required*	Data returned in this field is recorded and submitted as part of the data capture settlement format.. Required for tokenization

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway. *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals. Not returned for ACH payment transactions.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only. Not returned for ACH payment transactions.
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only. Not returned for ACH payment transactions.
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only. Not returned for ACH payment transactions.
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only. Not returned for ACH payment transactions.
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values.

Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/ProcessedTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "PaymentMethodID": "deabf6cf-7325-4547-83e0-54ebeb06eeb4",
  "IsRecurringPayment": false,
  "CreditCardOverrides": {
    "FullName": "Test User",
    "ExpirationDate": "1014",
    "CVV": "999",
    "Billing": {
      "Address1": "3400 N Ashton Blvd",
      "Address2": "Suite 200",
      "Address3": "",
      "City": "Lehi",
      "State": "UT",
      "ZipCode": "84043",
      "Country": "USA",
      "TelephoneNumber": "8012223333",
      "Email": "test@user.com"
    }
  },
  "AchOverrides": {
    "MandateDate": "2013-03-11 12:46:31 PM",
    "MandateDateSigned": "2013-03-11 12:46:31 PM",
    "MandateId": "11250653-9731-404a-a38c-bf3082d8d5e2",
    "PayerOverrides": {
      "IpAddress": "127.0.0.1"
    }
  },
  "MerchantProfileId": 1234,
  "PayerAccountId": "5823760912097888",
  "Amount": 300,
  "CurrencyCode": "USD",
  "Invoice": "7e9e6542-febb-4883-95ec-956d305e0143",
  "Comment1": "Credit Comment 1",
}
```

### Sample JSON response data:

```
{
  "Transaction": {
    "AVSCode": "T",
    "AuthorizationCode": "A11111",
    "CurrencyConversionRate": 1,
    "CurrencyConvertedAmount": 300,
    "CurrencyConvertedCurrencyCode": "USD",
    "ResultCode": {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
    },
    "TransactionHistoryId": "7911897",
    "TransactionId": "528",
    "TransactionResult": "Success",
    "CVVResponseCode": "M",
    "GrossAmt": 300,
    "NetAmt": 255,
    "PerTransFee": 35,
    "Rate": 3.25,
    "GrossAmtLessNetAmt": 45
  },
  "RequestResult": {
    "ResultValue": "SUCCESS",
    "ResultCode": "00",
    "ResultMessage": ""
  }
}
```

```
    "Comment2": "Credit Comment 2",  
    "IsDebtRepayment": "false",  
    "IsQuasiCash": "false"  
  }  
}
```

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### 7.6 Process a Payment (Flag request as a recurring payment)

This method will attempt to process a complete payment (authorize and capture) against a particular PaymentMethodId. This transaction will be specially flagged as recurring when it reaches the cardholder's bank.

- Sending override Elements will override the information stored with the PaymentMethodId and/or PayerId with the supplied values during the transaction request to the issuer.
- This method is used for both ACH and Credit Card Transactions

#### Request values defined

Request Element	Type	Max	Required	Notes
-----------------	------	-----	----------	-------

AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
IsRecurringPayment	Boolean	5	Required* REST ONLY	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> If set to true this transaction will be marked recurring at the issuer
AchOverrides	Object	-	ACH Only	Used to override the information stored with the ACH PaymentMethodId type
AchOverrides.BankAccountType	String	1	Optional	Valid values are: <ul style="list-style-type: none"> <li>Checking</li> <li>Savings</li> <li>LoanCredit</li> <li>GeneralLedger</li> </ul>
AchOverrides.SecCode	String	3	Required*	Standard Entry Class Code. Valid values are: <ul style="list-style-type: none"> <li>PPD</li> <li>CCD</li> <li>WEB</li> <li>TEL</li> </ul> *If the PaymentMethodId type is an ACH type this value is required
CreditCardOverrides	Object	-	Optional	Used to override the information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing	Object	-	Optional	Used to override the Billing information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing.Address1	String	50	Optional	Used to override the Address1 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address2	String	50	Optional	Used to override the Address2 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address3	String	50	Optional	Used to override the Address3 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.City	String	25	Optional	Used to override the City stored with the PaymentMethodId
CreditCardOverrides.Billing.Country	String	3	Optional	Used to override the Country stored with the PaymentMethodId *Must be ISO 3166 standard 3 character country code.
CreditCardOverrides.Billing.Email	String	100	Optional	Used to override the Email address stored with the PaymentMethodId
CreditCardOverrides.Billing.State	String	3	Optional	Used to override the State stored with the PaymentMethodId
CreditCardOverrides.Billing.TelephoneNumber	Integer	20*	Optional	Used to override the Telephone Number stored with the PaymentMethodId *10 digits for US numbers.
CreditCardOverrides.Billing.ZipCode	String	10	Optional	Used to override the ZipCode stored with the PaymentMethodId
CreditCardOverrides.CVV	String	4	Optional	CVV code. If submitting the CVV code with this transaction request it must be passed in the CreditCardOverrides Object

				*ProtectPay will not store this value.
CreditCardOverrides.ExpirationDate	String	4	Optional	Used to override the Expiration Date stored with the PaymentMethodId For a credit card these are submitted as 4 digit numeric values MMY. *Required if the Processor Gateway Requires an Expiration Date
CreditCardOverrides.FullName	String	50	Optional	Used to override the Account Name stored with the PaymentMethodId
PayerOverrides	Object	-	Optional	
PayerOverrides.IpAddress	String	15	Optional	IP address as read from cardholder browser session.
PaymentMethodID	GUID	36	Required	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
ShouldCapture	Boolean		Required* REST ONLY	True or False; Whether or not this transaction should be captured. If false, this will just be an auth only transaction.
Transaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Invoice	String	50	Optional	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
IsDebtRepayment	Boolean	5	Optional	Valid Values are: <ul style="list-style-type: none"> <li>▪ True</li> <li>▪ False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.
MerchantProfileId	Int(64)	Signed Int(64)	Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
FraudDetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FraudDetectorsObject
IsQuasiCash	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>• true</li> <li>• false</li> </ul> If the transaction is IsQuasiCash then this needs to be set to true.
FraudDetectors.FraudDetectorProviderName	String		Required*	If using FraudDetectors Object this Element is required.

Tokenization.TokenRequestorID	String		Required*	This field contains eleven digits that uniquely identify the pairing of token requestor with the token domain. It is assigned by the token service provider and is unique within the token vault. Required for tokenization.
Tokenization.TAAV	String		Required*	This would be the encrypted string (converted to HEX) that goes into G3v017 in the CAVV Revised field. The format is a 40-digit A/N HEX value.  * If this is not provided, then the DTVV should be provided.  <b>Note: VISA's recommendation is to use this value instead of the DTVV.</b> Required for tokenization
Tokenization.Token	String		Required*	This is the same as PAN (surrogate to PAN); 13-19 digits. This will be provided by the Token Service Provider. Required for tokenization
Tokenization.DTVV	String		Required*	The Dynamic Token Verification Value (DTVV) exists for Visa merchants that process tokenized e-commerce transactions This will be provided by the Token Service Provider. <b>Note: VISA's recommendation is to use TAVV instead of the DTVV. Required for tokenization</b>
Tokenization.TokenExpiryDate	String		Required*	This is like card expiry date . Required for tokenization
ExternalTransactionIdentifier	String	15	Required*	Data returned in this field is recorded and submitted as part of the data capture settlement format.. Required for tokenization

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See Appendix for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See Appendix for possible returned Messages
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	

Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See Appendix for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See Appendix for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/ProcessedTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "PaymentMethodID":"de1ae2bd-c194-437c-ba9a-cb0730bd92d1",
  "IsRecurringPayment":true,
  "CreditCardOverrides":
  {
    "FullName":"Test User",
    "ExpirationDate":"1014",
    "CVV":"999",
    "Billing":
    {
      "Address1":"3400 N Ashton Blvd",
      "Address2":"Suite 200",
      "Address3":"",
      "City":"Lehi",
      "State":"UT",
      "ZipCode":"84043",
      "Country":"USA",
      "TelephoneNumber":"8012223333",
      "Email":"test@user.com"
    }
  }
}
```

### Sample JSON response data:

```
{
  "Transaction":
  {
    "AVSCode":"T",
    "AuthorizationCode":"A11111",
    "CurrencyConversionRate":1,
    "CurrencyConvertedAmount":300,
    "CurrencyConvertedCurrencyCode":"USD",
    "ResultCode":
    {
      "ResultValue":"SUCCESS",
      "ResultCode":"00",
      "ResultMessage":""
    },
    "TransactionHistoryId":"7897264",
    "TransactionId":"519",
    "TransactionResult":"Success",
    "CVVResponseCode":"M",
    "GrossAmt":300,
    "NetAmt":0,
    "PerTransFee":0,
  }
}
```

```
"AchOverrides":null,
"PayerOverrides":
{
  "IpAddress":"127.0.0.1"
},
"MerchantProfileId":1234,
"PayerAccountId":"5823760912097888",
"Amount":300,
"CurrencyCode":"USD",
"Invoice":"Test Invoice",
"Comment1":"Process Comment 1",
"Comment2":"Process Comment 2",
"IsDebtRepayment":"false",
"IsQuasiCash": "false"
}
```

```
"Rate": 0,
"GrossAmtLessNetAmt": 0
},
"RequestResult":
{
  "ResultValue": "SUCCESS",
  "ResultCode": "00",
  "ResultMessage": ""
}
}
```

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## 7.7 Process a Payment Method with Encrypted Track Data

This method will attempt to process a complete payment (authorize and capture) against a particular payment method from Encrypted Track Data from a supported ProtectPay swipe device.

- Set 'ShouldCapture' to true for an Auth + Capture transaction.
- Some of the ProPay approved swipe devices combine both credit card 'tracks' of data into one value. If this is the case, submit the entire encrypted block as **EncryptedTrackData**. Other devices provide two separate values and it requires both elements to successfully submit as **EncryptedTrackData** and **Encrypted2TrackData**

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
AccountName	String	50	Optional	Cardholder name. Will be passed on to gateway if gateway accepts it.
Address1	String	50	Optional	Cardholder address. *Max length is 40 for multi-currency transactions.
Address2	String	50	Optional	Cardholder address. *Max length is 40 for multi-currency transactions.
City	String	25	Optional	Cardholder address
Country	String	3	Optional	Cardholder address. *Must be ISO 3166 standard 3 character country code.
Description	String	25	Required	Description for the new stored payment method.
Email	String	100	Optional	Email address for payment method
State	String	3	Optional	Cardholder address
TelephoneNumber	String	20*	Optional	The phone number for the payment method. *10 digits for US numbers.
ZipCode	String	10	Optional	Cardholder address
ShouldCapture	Boolean		Required	Valid values are: <ul style="list-style-type: none"> <li>▪ true</li> <li>▪ false</li> </ul> Set this value to false for Authorization Only
ShouldCreatePaymentMethod	Boolean		Required	True or False; Determines if the data should be stored as a PaymentMethodId after processing it.
CreatePaymentMethodDuplicateAction	String			Use only if instructed. Determines action to take in the event that a new payment method duplicates an existing payment method. Valid values are: <ul style="list-style-type: none"> <li>▪ SaveNew -default if not specified</li> </ul>

				<ul style="list-style-type: none"> <li>Error -return error if duplicate found</li> <li>ReturnDup -causes payment method id to be returned when duplicate found</li> </ul>
Priority	Integer		Optional	Do not use
EncryptedTrackData	Object	-	Required	
EncryptedTrackData .DeviceType	String		Required	Valid Values are: <ul style="list-style-type: none"> <li>MagTekM20</li> <li>MagTekFlash</li> <li>IdTechUniMag</li> <li>Manual</li> <li>MagTekADynamo</li> <li>MagTekDynamag</li> <li>RoamData</li> </ul> See Appendix.2 for additional details
EncryptedTrackData KeySerialNumber	Base64 String		Required	This value will be obtained from the ProPay supported device.
EncryptedTrackData.EncryptedTrack2Data	Base64 String		**	Encrypted data as pulled from the ProPay approved encrypted swipe device.
EncryptedTrackData.EncryptedTrackData	Base64 String		**	Encrypted data as pulled from the ProPay approved encrypted swipe device.
Transaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Invoice	String	50	Optional	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
MerchantProfileId	Integer		Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
PayerAccountID	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
IsDebtRepayment	Boolean	-	Optional	Valid Values are: <ul style="list-style-type: none"> <li>True</li> <li>False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.

Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
IsQuasiCash	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> If the transaction is IsQuasiCash then this needs to be set to true.
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
CaptureResult	Object	Returns Null for Authorize
PaymentMethodId	GUID	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway. *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.

Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/ProcessedTransactions/
Method	PUT

### Sample JSON request data:

```

"EncryptedTrackData":
{
"EncryptedTrackData":"xfXe+Qv92/8lugmY3bBZIT988NxL
w4e28Trvr/O0d9yRBOuy5cHT4ORij5kte5G01HKCj8Yzxxii/
HhFxdfugwTvXKkgjCiysmpdVnqb32YD3
NHWcjnx5rSU3M+o5NojdA0h11nPCjyOYdVHIPHf8oxd/ch4Rss8",
"EncryptedTrack2Data":"Uvgy3fK68GahZsC0QEYpFGIXK
QVKvI0PnFzQeIVwAF3PsbBgS6GDd61R8dfxAGTwEFUBs0mn
iHHgK1ht4CHUfHxlyu0+t/TW3FJHpVxPhWD8
Eu7joweYOLyM+i9NV1WVP/Ghg5PQjrr3a5iC+1k31NbrK+dOn0a",
"DeviceType": "RoamData",
"KeySerialNumber":"kBAkCwBgHQAXA=="
},
"ShouldCapture":true,
"ShouldCreatePaymentMethod":true,
"StorageInformation":null,
"CreatePaymentMethodDuplicateAction":"ReturnDup",
"MerchantProfileId":"0",
"PayerAccountId":"7184083347625218",
"Amount":300,
"CurrencyCode":"USD",
"Invoice":"Test Invoice",
"Comment1":"Process Comment 1",
"Comment2":"Process Comment 2",
"IsQuasiCash": "false"
}

```

### Sample JSON response data:

```

{
"AuthorizeResult":
{
"Transaction":
{
"AVSCode": "NotPresent",
"AuthorizationCode": "",
"CurrencyConversionRate": 1,
"CurrencyConvertedAmount": 300,
"CurrencyConvertedCurrencyCode": "USD",
"ResultCode":
{
"ResultValue": "FAILURE",
"ResultCode": "201",
"ResultMessage": "InvalidExpDate"
},
"TransactionHistoryId": "8392043",
"TransactionId": "0",
"TransactionResult": "Declined",
"CVVResponseCode": "NotPresent",
"GrossAmt": null,
"NetAmt": null,
"PerTransFee": null,
"Rate": null,
"GrossAmtLessNetAmt": null
},
"RequestResult":
{
"ResultValue": "FAILURE",
"ResultCode": "201",
"ResultMessage": "InvalidExpDate"
},
"CaptureResult": null,
"PaymentMethodId": "4945f470-1379-4cab-8e2a-ebf3fc424f75",
"Result": null
}
}

```

## 7.8 Process a transaction from an external provider

This method will attempt to process a complete payment (authorize and capture) against a particular payment method via an external payment processor.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.
PaymentMethodLookup	Object	-	Required	Contains the External system information
PaymentMethodLookup.Identifier	String		Required	Specifies the payment method ID.
PaymentMethodLookup.System	Integer		Required	Specifies the external system to use. Valid values are: <ul style="list-style-type: none"> <li>0 = None</li> <li>1 = Visa Checkout</li> </ul>
PaymentMethodLookup.Verifier	String		Optional	Specifies the external verifier
PaymentMethodLookup.CheckoutResourceUrl	String		Optional	Specifies the external verifier resource URI
Transaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
MerchantProfileId	Int(64)	Signed Int(64)	Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Invoice	String	50	Optional	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
IsDebtRepayment	Boolean	-	Optional	Valid Values are: <ul style="list-style-type: none"> <li>True</li> <li>False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
IsQuasiCash	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>true</li> </ul>

				<ul style="list-style-type: none"> <li>false</li> </ul> If the transaction is IsQuasiCash then this needs to be set to true.
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway. *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/ExternalPaymentMethods/ProcessedTransactions/
Method	PUT

#### Sample JSON request data:

```
{
  "Amount":12300,
  "Comment1":"comment one",
  "Comment2":"comment two",
  "CurrencyCode":"USD",
  "Invoice":"69c73c5fbec9432ca7071ff90ac5ea35",
  "IsAuthorizationOnly":false,
  "MerchantProfileId":1234,
  "IsQuasiCash": "false"
  "PaymentMethodLookup":
  {
    "Identifier":"4066401690744142168",
    "System":1
  }
}
```

#### Sample JSON response data:

```
{
  "Result":{
    "ResultValue":"SUCCESS",
    "ResultCode":"00",
    "ResultMessage":""
  },
  "Transaction":{
    "TransactionHistoryId":"39550037",
    "AuthorizationCode":"A11111",
    "AVSCode":"T",
    "TransactionResult":"Success",
    "TransactionId":"2",
    "ResultCode":{
      "ResultValue":"SUCCESS",
      "ResultCode":"00",
      "ResultMessage":""
    }
  },
  "CurrencyConvertedAmount":100,
  "CurrencyConvertedCurrencyCode":"USD",
  "CurrencyConversionRate":1.0
}
```

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## 7.9 Capture a Transaction

This method will attempt to capture a transaction that was previously authorized and allows the actual amount to be adjusted prior to the capture request.

### Request values defined

Request Element	Type	Max	Required	Notes
Id.AuthenticationToken	String	100 Characters	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
Id.BillerAccountId	String	16 Characters	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
Amount	Int(64)	Int	Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Comment1	String	128 Characters	No	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128 Characters	No	Transaction descriptor. Only passed if supported by the gateway.
CurrencyCode	String	3 Characters	Required	ISO 4217 standard 3 character currency code.
MerchantProfileId	Integer	Int	Required	Used to specify which processor and merchant account to process the transaction against.
TransactionHistoryId	Integer	Int	Required	ProtectPay's identifier for the transaction to capture. **This value is returned by AuthorizePaymentMethodTransaction.

\* There is no REST interface to support Int 64 values. Please refer to the following to capture transactions limited to Int 32 values:

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The ProtectPay API Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See ProtectPay Appendix A for possible returned Messages
AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
CurrencyConvertedAmount	Long	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
CVVResponseCode	String	
GrossAmt	Long	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
GrossAmtLessNetAmt	Long	Total amount of fees charged; *ProPay Gateway Only

NetAmt	Long	Net amount of transaction after fees charged; *ProPay Gateway Only
PerTransFee	Long	Per transaction fee; *ProPay Gateway Only
Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
TransactionId	String	Transaction number assigned by processor (Gateway)
TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/PaymentMethods/CapturedTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "MerchantProfileId": 12345,
  "TransactionHistoryId": "123456789",
  "Amount": 300,
  "CurrencyCode": "USD"
}
```

### Sample JSON response data:

```
{
  "Transaction":
  {
    "AVSCode": "T",
    "AuthorizationCode": "A11111",
    "CurrencyConversionRate": 1,
    "CurrencyConvertedAmount": 300,
    "CurrencyConvertedCurrencyCode": "USD",
    "ResultCode":
    {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
    },
    "TransactionHistoryId": "123456789",
    "TransactionId": "300",
    "TransactionResult": "Success",
    "CVVResponseCode": "M",
    "GrossAmt": 300,
    "NetAmt": 255,
    "PerTransFee": 35,
    "Rate": 3.25,
    "GrossAmtLessNetAmt": 45
  },
  "RequestResult":
  {
```

```
"ResultValue": "SUCCESS",  
"ResultCode": "00",  
"ResultMessage": ""  
}  
}
```

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## 8.0 Voids Refunds and Credits

### 8.1 Void a Transaction

This method is used for both Credit Card and ACH payment refunds. It will void a PaymentMethodId transaction or PaymentMethodId authorization. Transactions may not be voided after an acquirer has sent the transaction to settlement. Acquirer's rules and schedules about what can or cannot be voided vary. Please consult with the gateway/acquirer to determine when transactions and authorizations may be voided.

#### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountID	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
Comment1	String	128	Optional	
Comment2	String	128	Optional	
MerchantProfileId	Int(64)	Signed Int(64)	Required	Used to specify which processor and merchant account to process the transaction against.
originalTransactionID	Int(64)	Signed Int(64)	Optional**	Identifier for the transaction to capture. This value would have been returned by AuthorizePaymentMethodTransaction. **This is the Gateway's identifier.
TransactionHistoryId	String	-	Optional**	Identifier for the transaction to capture. This value would have been returned by AuthorizePaymentMethodTransaction. **This ProtectPay's identifier.

\*\*Either the originalTransactionID or the TransactionHistoryId is required. If both are sent, the originalTransactionID is disregarded and the TransactionHistoryId is used.

#### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The ProtectPay API Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See ProtectPay Appendix A for possible returned Messages
AuthorizationCode	String	Will return null as it is not applicable for Voids
AVSCode	String	Will return as Not Present as it is not applicable for Voids
CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
CVVResponseCode	String	Will not Return as it is not applicable for Voids
GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.

GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
TransactionId	String	Transaction number assigned by processor (Gateway)
TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/VoidedTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "OriginalTransactionId": "2",
  "TransactionHistoryId": 0,
  "MerchantProfileId": null,
  "Comment1": "Void Comment 1",
  "Comment2": "Void Comment 2"
}
```

### Sample JSON response data:

```
{
  "Transaction": {
    "AVSCode": "NotPresent",
    "AuthorizationCode": null,
    "CurrencyConversionRate": 1.0,
    "CurrencyConvertedAmount": 100,
    "CurrencyConvertedCurrencyCode": "USD",
    "GrossAmt ": null,
    "GrossAmtLessNetAmt ": null,
    "NetAmt ": null,
    "PerTransFee ": null,
    "Rate ": null,
    "ResultCode": {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
    }
  },
  "TransactionHistoryId": "0",
  "TransactionId": "3",
  "TransactionResult": "Success",
  "CVVResponseCode": "NotPresent"
}
```

```
"RequestResult":  
{  
  "ResultValue":"SUCCESS",  
  "ResultCode":"00",  
  "ResultMessage":""  
}  
}
```

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## 8.2 Refund a Transaction

This method will refund a credit card or ACH transaction. Typical gateway behavior:

- Refunds will create a separate transaction crediting the cardholder's account.
- If an amount is supplied (greater than 0.00 but less than the original amount) then ProtectPay will attempt to perform a partial refund. If no amount is supplied or the amount supplied is zero, then ProtectPay will attempt to perform a full refund.

Some processor gateways have different requirements for data that must be submitted for a successful refund please review ProtectPay Appendix B for each gateway to determine if additional or uniquely formatted data is required.

### Request values defined

Request Element	Type	Max	Required	Notes
Id.AuthenticationToken	String	100 Characters	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
Id.BillerAccountId	String	16 Characters	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
Amount	Int(64)	Signed Int(64)	Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Comment1	String	128 Characters	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128 Characters	Optional	Transaction descriptor. Only passed if supported by the gateway.
MerchantProfileId	Int(64)	Signed Int(64)	Required	Used to specify which processor and merchant account to process the transaction against.
CurrencyCode	String	3 Characters	Required	ISO 4217 standard 3 character currency code.
TransactionHistoryId	Int(64)	Signed Int(64)	Optional**	ProtectPay transaction identifier for the transaction to refund. **Do not submit this value if the original transaction was processed externally from ProtectPay
OriginalTransactionId	String	-	Optional**	Gateway transaction identifier for the transaction to refund. **Required if the original transaction was processed externally from ProtectPay
PaymentMethodId	String	36	Required*	Valid Value is a GUID. *This value must be passed if the original transaction was processed externally from ProtectPay

\*\*Either the originalTransactionID or the TransactionHistoryId is required. If both are sent, the originalTransactionID is disregarded and the TransactionHistoryId is used.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue		The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage.
RequestResult.ResultCode	String	The ProtectPay API Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See ProtectPay Appendix A for possible returned Messages.

AuthorizationCode	String	Will return null as it is not applicable for Refunds.
AVSCode	String	Will return as Not Present as it is not applicable for Refunds.
CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions.
CurrencyConvertedAmount	Long	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions.
CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions.
CVVResponseCode	String	Will not Return as it is not applicable for Refunds.
GrossAmt	Long	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
GrossAmtLessNetAmt	Long	Total amount of fees charged; *ProPay Gateway Only.
NetAmt	Long	Net amount of transaction after fees charged; *ProPay Gateway Only.
PerTransFee	Long	Per transaction fee; *ProPay Gateway Only.
Rate	Decimal	Percentage fee; *ProPay Gateway Only.
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE.
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values.
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values.
TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
TransactionId	String	Transaction number assigned by processor (Gateway).
TransactionResult	String	Transaction result as reported by processor (Gateway).

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/RefundTransaction/
Method	PUT

### Sample JSON request data:

```
{
  "OriginalTransactionId": "2",
  "TransactionHistoryId": "103271487",
  "MerchantProfileId": "12345",
  "Amount": "5545",
  "CurrencyCode": "USD",
  "Comment1": "Refund Comment 1",
  "Comment2": "Refund Comment 2"
}
```

### Sample JSON response data:

```
{
  "TransactionDetail": {
    "AVSCode": "NotPresent",
    "AuthorizationCode": null,
    "CurrencyConversionRate": "1.0",
    "CurrencyConvertedAmount": "100",
    "CurrencyConvertedCurrencyCode": "USD",
    "CVVResponseCode": "NotPresent",
    "GrossAmt": null,
    "GrossAmtLessNetAmt": null,
    "NetAmt": null,
  }
}
```

```
"PerTransFee ":null,  
"Rate ":null  
"ResultCode":{  
  "ResultValue":"SUCCESS",  
  "ResultCode":"00",  
  "ResultMessage":""  
},  
"TransactionHistoryId":"39560623",  
"TransactionId":"3",  
"TransactionResult":"Success"  
},  
"RequestResult":{  
  "ResultValue":"SUCCESS",  
  "ResultCode":"00",  
  "ResultMessage":""  
}  
}
```

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### 8.3 Issue a Credit

This method will process a transaction crediting a Credit Card or ACH PaymentMethodId. This method does not require an original transaction reference in order to process and may not be allowed, or must be specially configured for the account by some gateways.

#### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
AchOverrides	Object	-	ACH Only	Used to override the information stored with the ACH PaymentMethodId type
AchOverrides.BankAccountType	String	1	Optional	Valid values are: <ul style="list-style-type: none"> <li>Checking</li> <li>Savings</li> <li>LoanCredit</li> <li>GeneralLedger</li> </ul>
AchOverrides.SecCode	String	3	Required*	Standard Entry Class Code. Valid values are: <ul style="list-style-type: none"> <li>PPD</li> <li>CCD</li> <li>WEB</li> <li>TEL</li> </ul> *If the PaymentMethodId type is an ACH type this value is required
CreditCardOverrides	Object	-	Optional	Used to override the information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing	Object	-	Optional	Used to override the Billing information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing.Address1	String	50	Optional	Used to override the Address1 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address2	String	50	Optional	Used to override the Address2 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address3	String	50	Optional	Used to override the Address3 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.City	String	25	Optional	Used to override the City stored with the PaymentMethodId
CreditCardOverrides.Billing.Country	String	3	Optional	Used to override the Country stored with the PaymentMethodId *Must be ISO 3166 standard 3 character country code.
CreditCardOverrides.Billing.Email	String	100	Optional	Used to override the Email address stored with the PaymentMethodId
CreditCardOverrides.Billing.State	String	3	Optional	Used to override the State stored with the PaymentMethodId
CreditCardOverrides.Billing.TelephoneNumber	Integer	20*	Optional	Used to override the Telephone Number stored with the PaymentMethodId *10 digits for US numbers.

CreditCardOverrides.Billing.ZipCode	String	10	Optional	Used to override the ZipCode stored with the PaymentMethodId
CreditCardOverrides.CVV	String	4	Optional	CVV code. If submitting the CVV code with this transaction request it must be passed in the CreditCardOverrides Object *ProtectPay will not store this value.
CreditCardOverrides.ExpirationDate	String	4	Optional	Used to override the Expiration Date stored with the PaymentMethodId For a credit card these are submitted as 4 digit numeric values MMY.
CreditCardOverrides.FullName	String	50	Optional	Used to override the Account Name stored with the PaymentMethodId
PayerOverrides	Object	-	Optional	
PayerOverrides.IpAddress	String	15	Optional	IP address as read from cardholder browser session.
paymentMethodID	GUID	36	Required	The ID for the Payment Method, also called a Token. The Payment Method Created Belongs to the PayerId it was Created For
Transaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
MerchantProfileId	Int(64)	Signed Int(64)	Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
PaymentMethodID	GUID	36	Required	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Invoice	String	50	Optional	Recommended. Transaction descriptor-only passed if supported by the gateway. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages

Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

#### How to call this method:

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/CreditTransactions
Method	PUT

Sample JSON request data:

```
{
  "PaymentMethodID":"de1ae2bd-c194-437c-ba9a-cb0730bd92d1",
  "CreditCardOverrides":null,
  "AchOverrides":null,
  "PayerOverrides":
  {
    "IpAddress":"127.0.0.1"
  },
  "MerchantProfileId":null,
  "PayerAccountId":"4335340335163087",
  "Amount":300,
  "CurrencyCode":"USD",
  "Invoice":"56714ea9-c14f-4153-b521-36d276b1170d",
  "Comment1":"Authorize Comment 1",
  "Comment2":"Authorize Comment 2"
}
```

Sample JSON response data:

```
{
  "Transaction":
  {
    "AVSCode": "T",
    "AuthorizationCode": "A11111",
    "CurrencyConversionRate": 1,
    "CurrencyConvertedAmount": 300,
    "CurrencyConvertedCurrencyCode": "USD",
    "ResultCode":
    {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
    },
    "TransactionHistoryId": "7897264",
    "TransactionId": "519",
    "TransactionResult": "Success",
    "CVVResponseCode": "M",
    "GrossAmt": 300,
    "NetAmt": 0,
    "PerTransFee": 0,
    "Rate": 0,
    "GrossAmtLessNetAmt": 0
  },
  "RequestResult":
  {
    "ResultValue": "SUCCESS",
    "ResultCode": "00",
    "ResultMessage": ""
  }
}
```

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## 9.0 ProPay-Specific Transactions

### 9.1 ProPay SplitPay Transaction

This method will attempt to push a ProPay Splitpay transaction against the ProPay gateway. ProPay is the only gateway that is supported for SplitPay through Protectpay. Please see additional information about SplitPay by reviewing the ProPay Merchant Services API documentation. This method is for both Credit Card and ACH SplitPay Transactions.

#### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
ACHOverrides	Object		Optional *	Required for ACH payment method types
ACHOverrides.BankAccountType	String	1	Optional	Type of bank account to pull from. Valid values are: <ul style="list-style-type: none"> <li>▪ Checking</li> <li>▪ Savings</li> <li>▪ LoanCredit</li> <li>▪ GeneralLedger</li> <li>▪ *If the PaymentMethodId type is an ACH type this value is required</li> </ul>
ACHOverrides.SecCode	String	3	Optional *	*Standard Entry Class Code <u>applies to ACH Payment Methods Only</u> . Valid values are: <ul style="list-style-type: none"> <li>▪ PPD</li> <li>▪ CCD</li> <li>▪ WEB</li> <li>▪ TEL</li> </ul>
CreditCardOverrides	Object	-	Optional	Used to override the information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing	Object	-	Optional	Used to override the Billing information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing.Address1	String	50	Optional	Used to override the Address1 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address2	String	50	Optional	Used to override the Address2 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address3	String	50	Optional	Used to override the Address3 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.City	String	25	Optional	Used to override the City stored with the PaymentMethodId
CreditCardOverrides.Billing.Country	String	3	Optional	Used to override the Country stored with the PaymentMethodId

				*Must be ISO 3166 standard 3 character country code.
CreditCardOverrides.Billing.Email	String	100	Optional	Used to override the Email address stored with the PaymentMethodId
CreditCardOverrides.Billing.State	String	3	Optional	Used to override the State stored with the PaymentMethodId
CreditCardOverrides.Billing.TelephoneNumber	Integer	20*	Optional	Used to override the Telephone Number stored with the PaymentMethodId *10 digits for US numbers.
CreditCardOverrides.Billing.ZipCode	String	10	Optional	Used to override the ZipCode stored with the PaymentMethodId
CreditCardOverrides.CVV	String	4	Optional	CVV code. If submitting the CVV code with this transaction request it must be passed in the CreditCardOverrides Object *ProtectPay will not store this value.
CreditCardOverrides.ExpirationDate	String	4	Optional	Used to override the Expiration Date stored with the PaymentMethodId For a credit card these are submitted as 4 digit numeric values MMY.
CreditCardOverrides.FullName	String	50	Optional	Used to override the Account Name stored with the PaymentMethodId
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FraudDetectorObject
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.
PayerOverrides	Object	-	Optional	
PayerOverrides.IpAddress	String	15	Optional	IP address as read from cardholder browser session.
SecondaryTransaction	Object	-	Required	The ProPay Merchant Account to split the transaction against
SecondaryTransaction.Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals
SecondaryTransaction.OriginatingAccountId	Integer		Required	InitialTransaction receiving ProPay merchant account number
SecondaryTransaction.ReceivingAccountId	Integer		Required	SecondaryTransaction split portion receiving ProPay account Number.
InitialTransaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals
Comment1	String	128	Optional	Transaction descriptor.
Comment1	String	128	Optional	Transaction descriptor.
Comment2	String	128	Optional	Transaction descriptor.
Comment2	String	128	Optional	Transaction descriptor.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code
Invoice	String	50	Optional	Recommended. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.

IsDebtRepayment	Boolean	5	Optional	Valid Values are: <ul style="list-style-type: none"> <li>▪ True</li> <li>▪ False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.
PayerAccountd	String	16	Required	*Both payer and payment method must be specified in order to process against stored data.
PaymentMethodID	String	36	Required	Valid value is a GUID. *Both payer and payment method must be specified in order to process against stored data.
MerchantProfileId	Int(64)	Signed Int(64)	Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
TransactionMerchantDescriptor	String	25	Optional	Letters, numbers and spaces but no special characters are allowed. This value will appear on the cardholder's credit card statement. Full descriptor length is 29, but the first 4 characters are consumed by a prefix that is set by ProPay. (Either identifies ProPay, or the integrated partner.)

#### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value: SUCCESS - The method completed; FAILURE - The method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
SecondaryTransactionId	String	Transaction number assigned for the Split transaction
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only
Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only

Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to Call this Method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/ProcessedSplitPayTransactions/
Method	PUT

### Sample JSON request data:

```
{
  "PaymentMethodID":"52d7d923-f05e-4ff1-9463-f001debbc8a2",
  "SecondaryTransaction":{
    "OriginatingAccountID":123456,
    "ReceivingAccountID":7890123,
    "Amount":222
  },
  "CreditCardOverrides":null,
  "AchOverrides":null,
  "PayerOverrides":{
    "IpAddress":"127.0.0.1"
  },
  "MerchantProfileId":1234,
  "PayerAccountID":"6213977865597131",
  "Amount":2000,
  "CurrencyCode":"USD",
  "Invoice":"Test Invoice",
  "Comment1":"ProcessSplitPayTransaction Comment 1",
  "Comment2":"ProcessSplitPayTransaction Comment 2",
  "IsDebtRepayment":"false"
}
```

### Sample JSON response data:

```
{
  "Transaction":
  {
    "AVSCode": "T",
    "AuthorizationCode": "A11111",
    "CurrencyConversionRate": 0,
    "CurrencyConvertedAmount": 0,
    "CurrencyConvertedCurrencyCode": "Unsupported",
    "ResultCode":
    {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
    },
    "TransactionHistoryId":"8394226",
    "TransactionId": "389",
    "TransactionResult": "Success",
    "CVVResponseCode": "NotPresent",
    "GrossAmt": null,
    "NetAmt": null,
    "PerTransFee": null,
    "Rate": null,
    "GrossAmtLessNetAmt": null
  },
  "SecondaryTransactionId": "2",
  "RequestResult":
  {
    "ResultValue": "SUCCESS",
    "ResultCode": "00",
  }
}
```

```
"ResultMessage": ""  
}  
}
```

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## 9.2 ProPay SplitPay Transaction with Encrypted Block Data

This method will attempt to push a ProPay Splitpay transaction against the ProPay gateway, by accepting data from a ProPay-supported encrypted track reader. ProPay is the only gateway that is supported for SplitPay through Protectpay. Please see additional information about SplitPay by reviewing the ProPay Merchant Services API documentation.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
ShouldCreatePaymentMethod	Boolean		Required	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Whether or not the data should be stored as a PaymentMethodId after processing it.
CreatePaymentMethodDuplicateAction	String			Use only if instructed. Determines action to take in the event that a new payment method duplicates an existing payment method. Valid values are: <ul style="list-style-type: none"> <li>SaveNew -default if not specified</li> <li>Error -return error if duplicate found</li> <li>ReturnDup -causes payment method id to be returned when duplicate found</li> </ul>
ACHOverrides	Object		Optional *	Required for ACH payment method types
ACHOverrides.BankAccountType	String	1	Optional	Type of bank account to pull from. Valid values are: <ul style="list-style-type: none"> <li>Checking</li> <li>Savings</li> <li>LoanCredit</li> <li>GeneralLedger</li> <li>*If the PaymentMethodId type is an ACH type this value is required</li> </ul>
ACHOverrides.SecCode	String	3	Optional *	*Standard Entry Class Code applies to ACH Payment Methods Only. Valid values are: <ul style="list-style-type: none"> <li>PPD</li> <li>CCD</li> <li>WEB</li> <li>TEL</li> </ul>
CreditCardOverrides	Object	-	Optional	Used to override the information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing	Object	-	Optional	Used to override the Billing information stored with the credit card PaymentMethodId type
CreditCardOverrides.Billing.Address1	String	50	Optional	Used to override the Address1 stored with the PaymentMethodId.

				*Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address2	String	50	Optional	Used to override the Address2 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.Address3	String	50	Optional	Used to override the Address3 stored with the PaymentMethodId. *Max length is 40 for multi-currency transactions.
CreditCardOverrides.Billing.City	String	25	Optional	Used to override the City stored with the PaymentMethodId
CreditCardOverrides.Billing.Country	String	3	Optional	Used to override the Country stored with the PaymentMethodId *Must be ISO 3166 standard 3 character country code.
CreditCardOverrides.Billing.Email	String	100	Optional	Used to override the Email address stored with the PaymentMethodId
CreditCardOverrides.Billing.State	String	3	Optional	Used to override the State stored with the PaymentMethodId
CreditCardOverrides.Billing.TelephoneNumber	Integer	20*	Optional	Used to override the Telephone Number stored with the PaymentMethodId *10 digits for US numbers.
CreditCardOverrides.Billing.ZipCode	String	10	Optional	Used to override the ZipCode stored with the PaymentMethodId
CreditCardOverrides.CVV	String	4	Optional	CVV code. If submitting the CVV code with this transaction request it must be passed in the CreditCardOverrides Object *ProtectPay will not store this value.
CreditCardOverrides.ExpirationDate	String	4	Optional	Used to override the Expiration Date stored with the PaymentMethodId For a credit card these are submitted as 4 digit numeric values MMY.
CreditCardOverrides.FullName	String	50	Optional	Used to override the Account Name stored with the PaymentMethodId
EncryptedTrackData	Object	-	Required	
EncryptedTrackData .DeviceType	String		Required	Valid Values are: <ul style="list-style-type: none"> <li>▪ MagTekM20</li> <li>▪ MagTekFlash</li> <li>▪ IdTechUniMag</li> <li>▪ Manual</li> <li>▪ MagTekADynamo</li> <li>▪ MagTekDynamag</li> <li>▪ RoamData</li> </ul> See Appendix. for additional details
EncryptedTrackData KeySerialNumber	Base64 String		Required	This value will be obtained from the ProPay supported device.
EncryptedTrackData.EncryptedTrack2Data	Base64 String		**	Encrypted data as pulled from the ProPay approved encrypted swipe device.
EncryptedTrackData.EncryptedTrackData	Base64 String		**	Encrypted data as pulled from the ProPay approved encrypted swipe device.
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.

PayerOverrides	Object	-	Optional	
PayerOverrides.IpAddress	String	15	Optional	IP address as read from cardholder browser session.
PaymentMethodStorage	Object	-	Optional*	Required if storing the Payment method as a PaymentMethodId
PaymentMethodStorage.AccountName	String	50	Optional	The name on the account for a payment method.
PaymentMethodStorage.Description	String	25	Required	Used to describe the payment method.
PaymentMethodStorage.Priority	Integer		Optional	Used to explicitly set an order for the ProcessPayment transaction.
PaymentMethodStorage.BillingInfo	Object		Optional	Optional Billing information to store when creating a PaymentMethodId
BillingInfo.Address1	String	50	Optional	The address on the account for a payment method.
BillingInfo.Address2	String	50	Optional	The address on the account for a payment method.
BillingInfo.Address3	String	50	Optional	The address on the account for a payment method.
BillingInfo.City	String	50	Optional	The city on the account for the payment method.
BillingInfo.Country	String	3	Optional	ISO 3166 standard 3 character country codes.
BillingInfo.Email	String		Optional	The email on the account for the payment method.
BillingInfo.State	String		Optional	The state on the account for the payment method.
BillingInfo.TelephoneNumber	String		Optional	The telephone number on the account for the payment method.
BillingInfo.ZipCode	String		Optional	The postal code on the account for the payment method.
SecondaryTransaction	Object	-	Required	The ProPay Merchant Account to split the transaction against
SecondaryTransaction.Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals
SecondaryTransaction.OriginatingAccountId	Integer		Required	InitialTransaction receiving ProPay merchant account number
SecondaryTransaction.ReceivingAccountId	Integer		Required	SecondaryTransaction split portion receiving ProPay account Number.
InitialTransaction	Object	-	Required	Contains Transaction Information *REST passes the transaction values directly and not nested
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals
Comment1	String	128	Optional	Transaction descriptor.
Comment2	String	128	Optional	Transaction descriptor.
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code
Invoice	String	50	Optional	Recommended. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
IsDebtRepayment	Boolean	-	Optional	Valid Values are: <ul style="list-style-type: none"> <li>▪ True</li> <li>▪ False</li> </ul> Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted. Only works with Visa transactions.

MerchantProfileId	Int(64)	Signed Int(64)	Required	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.
PayerAccountd	String	16	Required	*Both payer and payment method must be specified in order to process against stored data.
PaymentMethodID	String	36	Required	Valid value is a GUID. *Both payer and payment method must be specified in order to process against stored data.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals
Comment1	String	128	Optional	Transaction descriptor.
Comment2	String	128	Optional	Transaction descriptor.
TransactionMerchantDescriptor	String	25	Optional	Letters, numbers and spaces but no special characters are allowed. This value will appear on the cardholder's credit card statement. Full descriptor length is 29, but the first 4 characters are consumed by a prefix that is set by ProPay. (Either identifies ProPay, or the integrated partner.)

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	String	The Method Response Message. See ProtectPay Appendix A for possible returned Messages
PaymentMethodId	GUID	This is the ProtectPay ID for the Payment Method, also called a Token The Payment Method Created Belongs to the PayerId it was Created For
SecondaryTransactionId	String	Transaction number assigned for the Split transaction
Transaction.AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
Transaction.AVSCode	String	AVS response produced by gateway *Only returned if AVS information is supplied and AVS is supported by the gateway.
Transaction.CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
Transaction.CurrencyConvertedAmount	Integer	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
Transaction.CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
Transaction.CVVResponseCode	String	
Transaction.GrossAmt	Integer	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
Transaction.GrossAmtLessNetAmt	Integer	Total amount of fees charged; *ProPay Gateway Only

Transaction.NetAmt	Integer	Net amount of transaction after fees charged; *ProPay Gateway Only
Transaction.PerTransFee	Integer	Per transaction fee; *ProPay Gateway Only
Transaction.Rate	Decimal	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
Transaction.TransactionId	String	Transaction number assigned by processor (Gateway)
Transaction.TransactionResult	String	Transaction result as reported by processor (Gateway)

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/ProcessedSplitPayTransactions/
Method	POST

### Sample JSON request data:

```
{
  "EncryptedTrackData":
    {
      "EncryptedTrackData": "xfXe+Qv92/8lugmY3bBZIT988Nxlw4e28Trvr/O0d9yRBOuy5
      cHT4ORij5kte5G01HKCj8Yzxii/HhFxdfugwTvXKkgjCiympdVnqb32YD3NHWcJnx5rS
      U3M+o5NojdA0h11nPCjyOYdVHlPHf8oxd/ch4Rss8",
      "EncryptedTrack2Data": "Uvgy3fK68GahZsC0QEYpFGIXkQVKvi0PnFzQelVwAF3Psb
      BgS6GDd61R8dfxAGTwEFUBs0mniHHgK1ht4CHUtHxIuy0+t/TW3FJHpVxPhWD8Eu7j
      oweYOLyM+i9NV1WVP/Ghg5PQjrr3a5IC+1k31NbtRk+dOn0a",
      "DeviceType": 7,
      "KeySerialNumber": "kBAkCwBgHQAXA=="
    },
  "ShouldCreatePaymentMethod": true,
  "StorageInformation": null,
  "CreatePaymentMethodDuplicateAction": "ReturnDup",
  "SecondaryTransaction":
    {
      "OriginatingAccountId": 123456,
      "ReceivingAccountId": 7890123,
      "Amount": 222
    },
  "MerchantProfileId": 1234,
  "PayerAccountId": "2347995097086220",
  "Amount": 2000,
  "CurrencyCode": "USD",
}
```

### Sample JSON response data:

```
{
  "Transaction":
    {
      "AVSCode": "T",
      "AuthorizationCode": "A11111",
      "CurrencyConversionRate": 0,
      "CurrencyConvertedAmount": 0,
      "CurrencyConvertedCurrencyCode": "Unsupported",
      "ResultCode":
        {
          "ResultValue": "SUCCESS",
          "ResultCode": "00",
          "ResultMessage": ""
        },
      "TransactionHistoryId": "8394226",
      "TransactionId": "389",
      "TransactionResult": "Success",
      "CVVResponseCode": "NotPresent",
      "GrossAmt": null,
      "NetAmt": null,
      "PerTransFee": null,
      "Rate": null,
      "GrossAmtLessNetAmt": null
    },
  "SecondaryTransactionId": "2",
}
```

```
"Invoice": "Test Invoice",  
"Comment1": "ProcessSplitPayTransactionWithTrackData Comment 1",  
"Comment2": "ProcessSplitPayTransactionWithTrackData Comment 2"  
}
```

```
"RequestResult":  
{  
  "ResultValue": "SUCCESS",  
  "ResultCode": "00",  
  "ResultMessage": ""  
},  
"PaymentMethodId": "4945f470-1379-4cab-8e2a-ebf3fc424f75"  
}
```

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### 9.3 Reverse ProPay SplitPay Transaction

This method will attempt to reverse a ProPay Splitpay transaction previously performed against the ProPay gateway. Please see additional information about SplitPay by reviewing the ProPay Merchant Services API documentation. This method is for both Credit Card and ACH SplitPay Reversals.

#### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
CreditCardReversalAmount	Int(64)	Signed Int(64)	Required	The value representing the number of pennies in USD, or the number of [currency] without decimals. This is the amount to be refunded to the original payment method.
ProPayToProPayAccountId	Int(64)	Signed Int(64)	Required	This is the ProPay account number for the split. *This value is the account identifier on the destination side of the split equation.
ProPayToProPayReversalAmount	Int(64)	Signed Int(64)	Required	This is the amount to push back from the recipient of the split.
RequireCreditCardRefund	Boolean		Required	True or False; If true then the split reversal will NOT be performed unless the ProPay merchant account has sufficient funds to refund the split. If false the split reversal will be performed regardless even when the credit card refund cannot be performed by funds in the ProPay merchant account.
TransactionId	Integer		Required	This is the ProPay transaction number for the Split. *This is the transaction identifier on the destination side of the equation. This is returned by the SplitPay transaction as the SecondaryTransactionId.
MerchantProfileId	Int(64)	Signed Int(64)	Optional	The MerchantProfileId that was created using the supplied credentials for the supplied Gateway that is used to process against this particular gateway. If not supplied, the first-created profile will be used.

#### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The ProtectPay API Method Response Code. See ProtectPay Appendix A for possible returned Values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See ProtectPay Appendix A for possible returned Messages
SecondaryTransactionId	String	The transaction Identifier for the Refund after the SplitPay transaction was reversed
AuthorizationCode	String	The auth code supplied by the issuing bank. *Only returned on a successful transaction
AVSCode	String	AVS response produced by gateway. *Only returned if AVS information is supplied and AVS is supported by the gateway.
CurrencyConversionRate	String	The rate for currency conversion used for multi-currency transactions
CurrencyConvertedAmount	String	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions

CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
CVVResponseCode	String	
GrossAmt	String	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
GrossAmtLessNetAmt	String	Total amount of fees charged; *ProPay Gateway Only
NetAmt	String	Net amount of transaction after fees charged; *ProPay Gateway Only
PerTransFee	String	Per transaction fee; *ProPay Gateway Only
Rate	String	Percentage fee; *ProPay Gateway Only
Transaction.ResultCode.ResultValue	String	The result value of the transaction request as reported by the ProtectPay. SUCCESS or FAILURE
Transaction.ResultCode.ResultCode	String	The result code of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
Transaction.ResultCode.ResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values
TransactionHistoryId	String	Unique transaction number assigned by ProtectPay.
TransactionId	String	Transaction number assigned by processor (Gateway)
TransactionResult	String	Transaction result as reported by processor (Gateway)

#### How to call this method:

HTTP Element	Value
Resource URI	/protectpay/ReversedSplitPayTransactions/
Method	PUT

#### Sample JSON request data:

```
{
  "CreditCardReversalAmount":200,
  "PropayToPropayReversalAmount":100,
  "TransactionId":2,
  "PropayToPropayAccountId":123456,
  "RequireCreditCardRefund":true,
  "MerchantProfileId": 29845185
}
```

#### Sample JSON response data:

```
{
  "RequestResult":
  {
    "ResultValue": "SUCCESS",
    "ResultCode": "00",
    "ResultMessage": ""
  },
  "Transaction":
  {
    "AVSCode": "NotPresent",
    "AuthorizationCode": null,
    "CurrencyConversionRate": 0,
    "CurrencyConvertedAmount": 0,
    "CurrencyConvertedCurrencyCode": "Unsupported",
    "ResultCode":
    {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
    }
  }
}
```

```
"TransactionHistoryId": "0",  
"TransactionId": "393",  
"TransactionResult": "Success",  
"CVVResponseCode": "NotPresent",  
"GrossAmt": null,  
"NetAmt": null,  
"PerTransFee": null,  
"Rate": null,  
"GrossAmtLessNetAmt": null  
},  
"SecondaryTransactionId": "0"  
}
```

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# 10.0 Payer Management Interface Methods

## 10.1 Create a Temp Token

This method will return a working key to allow use of the Seamless Payment Interface (SPI).

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
DurationSeconds	Integer	-	Required	Number of seconds the new temp token will be valid for. Value should be set for a reasonable amount of time to allow use. *Default value is 600.
Id	String		Optional	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it *If supplied a new payer will not be created
Name	String	50	Optional	Descriptive name for a payer. *If supplied a new PayerID will be created

\*If a Payer ID is not provided, name is required and this method will create a Payer.

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The ProtectPay API Method Response Code. See ProtectPay Appendix A for possible returned Values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See ProtectPay Appendix A for possible returned Messages
CredentialId	Integer	An internal ProPay reference ID to reference the returned TempToken
PayerId	String	Either Created by supplying a name or returned if supplied an Id for PayerInfo. *Id supersedes Name if both are supplied
TempToken	string	Used to access and make use of the ProtectPay Payer Management Interfaces. This is a one-time use token. *In the PMI manuals this is referred to as the AuthToken

### How to call this method

HTTP Element	Value
Resource URI(s)	/protectpay/Payers/{PayerId}/TempTokens/?durationSeconds={durationSeconds} /protectpay/TempTokens/?payerName={payername}&durationSeconds={durationSeconds}
Method	GET

Sample JSON request data:  
URI ONLY

Sample JSON response data (Known PayerId):

```
{
  "TempToken":"1c29d0ca-7b06-4e80-93f9-117178ecc9e490dff678-d8e7-4825-a606-a7f68a0f11
  "PayerId":"5823760912097888",
  "RequestResult":
  {
    "ResultValue":"SUCCESS",
    "ResultCode":"00",
    "ResultMessage":""
  },
  "CredentialId":15393390
}
```

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## 10.2 Create Hosted Transaction Instance

- This method will create and return a hosted transaction identifier for the Hosted Payment Page (HPP). This method is used to set the processing method of the hosted page. After the payer has completed the hosted transaction with the transaction form the following method will return the results of the transaction: ProtectPay API Method 4.7.3 'GetHostedTransaction'.

### Request values defined

Request Element	Type	Max	Required	Notes
AuthenticationToken	String	100	Authorization	Valid value is a GUID. Value supplied by ProPay. Used to access the API
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
AcceptMasterPass	Boolean		Optional	Valid values are: <ul style="list-style-type: none"> <li>▪ true</li> <li>▪ false</li> </ul> User can use MasterPass making CreateHostedTransactionIdentifier call with AcceptmasterPass true .This property is ignored if merchant is not subscribed for Masterpass.
AuthOnly	Boolean		Required	Valid values are: <ul style="list-style-type: none"> <li>▪ true</li> <li>▪ false</li> </ul> Used to instruct HPP to perform its transaction as a pre-auth only
AvsRequirementType	Integer	1	Required	Indicates if the 'AVS' section should be required, optional, or hidden. <ul style="list-style-type: none"> <li>▪ 1 (REST), Required (SOAP) : Displayed, and user must fill it out</li> <li>▪ 2 (REST), Optional (SOAP) : Displayed, and user may fill it out</li> <li>▪ 3 (REST), Hidden (SOAP) : Not displayed to the user).</li> </ul>
BillerAccountId	String	-	Optional	Intended Future Use
BillerAuthToken	String	-	Optional	Intended Future Use
BillerIdentityId	Long	-	Optional	Intended Future Use
CardHolderNameRequirementType	Integer	1	Required	Indicates if the 'CardHolderName' section should be required, optional, or hidden. <ul style="list-style-type: none"> <li>▪ 1 (REST), Required (SOAP) : Displayed, and user must fill it out</li> <li>▪ 2 (REST), Optional (SOAP) : Displayed, and user may fill it out</li> <li>▪ 3 (REST), Hidden (SOAP) : Not displayed to the user).</li> </ul>
Comment1	String	128	Optional	Comment 1 to be displayed to the user on the Hosted Page.
Comment2	String	128	Optional	Comment 2 to be displayed to the user on the Hosted Page.
CreationDate	DateTime	-		
CssUrl	String	1024	Optional	The fully qualified URL to use for the CSS that drives the look of the page. <ul style="list-style-type: none"> <li>▪ Custom CSS Files must be hosted on an HTTPS connection</li> <li>▪ Sending an empty vaule will remove all styles</li> </ul>
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.

Frauddetectors	Object	-	Optional	Please See ProtectPay ProtectPay Appendix A for details concerning the FrauddetectorsObject
Frauddetectors.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.
HostedTransactionIdentifier	String	-		The hosted transaction ID (GUID) that was returned from the call to "CreateHostedTransactionIdentifier"
InvoiceNumber	String	50	Optional	Highly recommended. Transaction descriptor-only passed if supported by the gateway.
MerchantProfileId	Long	-	Required	Used to specify which processor and merchant account to process the transaction against.
OnlyStoreCardOnSuccessfulProcess	Boolean	-	Required	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Only stored the card information if the card transaction was successful. * This is ignored if the "StoreCard" property is set to true
PaymentTypeId	String	1	Required	Valid Values are <ul style="list-style-type: none"> <li>0 – Credit Card</li> <li>1 – ACH</li> </ul> If set to 1 overrides display options and displays Name and ACH field only
PayerId	Long	16	Required	The Payer under which the PaymentMethodId should be created under.
ProcessCard	Boolean	-	Required*	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Process (authorize and capture) the card transaction. This property is ignored if the "AuthOnly" property is true.
Protected	Boolean	5	Optional	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Payment methods set to 'true' cannot be deleted by a payer.
ReturnURL	String	1024	Optional	The fully qualified URL to redirect once transaction is completed. * Sending an empty value will not allow to perform a transaction.
SecurityCodeRequirementType	Integer	1	Required	Indicates if the 'SecurityCode' section should be required, optional, or hidden. <ul style="list-style-type: none"> <li>1 (REST), Required (SOAP) : Displayed, and user must fill it out</li> <li>2 (REST), Optional (SOAP) : Displayed, and user may fill it out</li> <li>3 (REST), Hidden (SOAP) : Not displayed to the user).</li> </ul>
StoreCard	Boolean		Required*	Valid values are: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Always store the card information. This is ignored if the "OnlyStoreCardOnSuccessfulProcess" property is true.

If [AuthOnly], [ProcessCard] and [StoreCard] are set to False the hosted page will not do anything

### Request values defined (Optional Elements to pre-load the Hosted Payment Page)

Request Element	Type	Max	Required	Notes
Address1	String	50	Optional	If this value is supplied the Hosted Payment Page will load with this value in the Address 1 Field. *Max length is 40 for multi-currency transactions.
Address2	String	50	Optional	If this value is supplied the Hosted Payment Page will load with this value in the Address 2 Field. *Max length is 40 for multi-currency transactions.
City	String	25	Optional	If this value is supplied the Hosted Payment Page will load with this value in the City Field
Country	String	3	Optional	If this value is supplied the Hosted Payment Page will load with this value in the Country Field *Must be ISO 3166 standard 3 character country code.
Description	String	100	Optional	If this value is supplied the Hosted Payment Page will load with this value in the Description Field
Name	String	3	Optional	If this value is supplied the Hosted Payment Page will load with this value in the Name Field
State	String	20*	Optional	If this value is supplied the Hosted Payment Page will load with this value in the State Field Country Code is Required if preloading the State Selection Box Limited to USA/CAN only
ZipCode	String	10	Optional	If this value is supplied the Hosted Payment Page will load with this value in the Postal Code Field
TransactionMerchantDescriptor	String	25	Optional	Letters, numbers and spaces but no special characters are allowed. This value will appear on the cardholder's credit card statement. Full descriptor length is 29, but the first 4 characters are consumed by a prefix that is set by ProPay. (Either identifies ProPay, or the integrated partner.)

### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	String	The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	String	The ProtectPay API Method Response Code. See ProtectPay Appendix A for possible returned Values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See ProtectPay Appendix A for possible returned Messages
HostedTransactionIdentifier	String	Unique One Time use only identifier for a Hosted Transaction Page

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/HostedTransactions/
Method	PUT

#### Sample JSON request data:

```
{
  "PayerAccountId": "2498355927655035",
```

#### Sample JSON response data:

```
{
  "HostedTransactionIdentifier": "f1549c53-e499-476d-84cc-93f99586505d",
```

```
"MerchantProfileId":12345,
"Amount":100,
"CurrencyCode":"USD",
"InvoiceNumber":"Test Invoice",
"Comment1":"Test Comment 1",
"Comment2":"Test comment 2",
"CardHolderNameRequirementType":1,
"SecurityCodeRequirementType":1,
"AvsRequirementType":1,
"AuthOnly":true,
"ProcessCard":true,
"StoreCard":true,
"OnlyStoreCardOnSuccessfulProcess":true,
"CssUrl":"https://protectpaytest.propay.com/hpp/css/pmi.css",
"Address1":"3400 N Ashton Blvd",
"City":"Lehi",
"Country":"USA",
"Name":"John Smith",
"ReturnURL":"www.propay.com",
"State":"UT",
"ZipCode":"84043",
"PaymentTypeId":"0"
```

```
}
```

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```
"Result":
{
  "ResultValue":"SUCCESS",
  "ResultCode":"00",
  "ResultMessage":""
}
```

### 10.3 Get Hosted Transaction Results

As a control against spoofing, the Protectpay Hosted Payment Page does NOT send a response describing its success or failure to process a transaction. Instead, use of this method is required to obtain those details. The result for this method includes information defined in the request made for Create Hosted Transaction and can include:

- Processing information (Authorization)
- Processing information (Authorization and Capture)
- PaymentMethodId information (If stored)

#### Request values defined

#### Response values defined

Response Element	Type	Notes
RequestResult.ResultValue	string	The ProtectPay API Method Response Value; SUCCESS indicates the method completed; FAILURE indicates the method call failed and the reason is indicated in the ResultCode and ResultMessage
RequestResult.ResultCode	string	The ProtectPay API Method Response Code. See ProtectPay Appendix A for possible returned values
RequestResult.ResultMessage	string	The ProtectPay API Method Response Message. See ProtectPay Appendix A for possible returned Messages
AuthCode	string	The auth code supplied by the issuing bank. *Only returned on a successful transaction
AVSResponse	string	AVS response produced by gateway, *Only returned if AVS information is supplied and AVS is supported by the gateway.
CreationDate	DateTime	Date the Hosted Transaction Identifier was created
CurrencyConversionRate	Decimal	The rate for currency conversion used for multi-currency transactions
CurrencyConvertedAmount	Long	Gross converted amount of transaction in the number of [currency] without decimals for multi-currency transactions
CurrencyConvertedCurrencyCode	String	The currency the transaction was converted to for multi-currency transactions
CVVResponseCode	String	The issuer CVV response. *Only returned if supplied. **ProtectPay WILL NOT store the CVV code of a Credit Card Payment Method
GrossAmt	Long	Gross amount of transaction of pennies in USD, or the number of [currency] without decimals.
GrossAmtLessNetAmt	Long	Total amount of fees charged; *ProPay Gateway Only
HostedTransactionIdentifier	String	The hosted transaction ID (GUID) that was returned from the call to "CreateHostedTransactionIdentifier"
NetAmt	Long	Net amount of transaction after fees charged; *ProPay Gateway Only
PayerId	Long	The PayerId of the Payment Method if requested to Store Payment Method and belongs to the BillerID that created the Transaction
PaymentMethodInfo	Collection	
PaymentMethodInfo.AccountName	String	The name on the account for a payment method. *Stored if requested to store payment

PaymentMethodInfo.BillingInformation.Address1	String	The address on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.BillingInformation.Address2	String	The address on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.BillingInformation.Address3	String	The address on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.BillingInformation.City	String	The city on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.BillingInformation.Country	String	The country on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.BillingInformation.Email	String	The email on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.BillingInformation.State	String	The state on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.BillingInformation.TelephoneNumber	String	The telephone number on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.BillingInformation.ZipCode	String	The postal code on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.DateCreated	DateTime	Date the PaymentMethodID was created *Stored if requested to store payment
PaymentMethodInfo.Description	String	Description of the Payment Method as input by the payer *Stored if requested to store payment
PaymentMethodInfo.ExpirationDate	String	Expiration Date of the Payment Method *Stored if requested to store payment
PaymentMethodInfo.ObfuscatedAccountNumber	String	Obfuscated Account Number of the Payment Method *Stored if requested to store payment
PaymentMethodInfo.PaymentMethodId	String	This is the ProtectPay ID for the Payment Method, also called a Token belongs to the PayerId it was Created For *Stored only if requested
PaymentMethodInfo.PaymentMethodType	String	The Payment Method Type; <ul style="list-style-type: none"> <li>▪ Visa</li> <li>▪ MasterCard</li> <li>▪ AMEX</li> <li>▪ Discover</li> <li>▪ DinersClub</li> <li>▪ JCB</li> <li>▪ ProPayToProPay</li> <li>▪ Checking</li> <li>▪ Savings</li> <li>▪ Maestro</li> </ul>
PaymentMethodInfo.Priority	Integer	Used to explicitly set an order for the ProcessPayment transaction
PaymentMethodInfo.Protected	Boolean	Payment methods set to 'true' cannot be deleted by a payer
PerTransFee	Int	Per transaction fee; *ProPay Gateway Only
Rate	Decimal	Percentage fee; *ProPay Gateway Only
TransactionHistoryId	Long	Unique transaction number assigned by ProtectPay

TransactionId	String	Transaction number assigned by processor (Gateway)
TransactionResult	String	The result value of the transaction request as reported by ProtectPay SUCCESS or FAILURE
TransactionResultMessage	String	The result message of the transaction request as reported by ProtectPay. See ProtectPay Appendix A for possible returned values

### How to call this method

HTTP Element	Value
Resource URI	/protectpay/HostedTransactionResults/{HostedTransactionId}
Method	GET

Sample JSON request data:  
URI ONLY

Sample JSON response data for used Hosted Transaction Identifier:

```
{
  "HostedTransaction":
  {
    "CreationDate": "2016-02-01T16:32:57.9970565",
    "HostedTransactionIdentifier": "3c2d361a-23a7-4ca1-9c4d-4c18e1af7ad1",
    "PayerId": 1045899410011966,
    "TransactionResultMessage": "",
    "AuthCode": "A11111",
    "TransactionHistoryId": 8299869,
    "TransactionId": "338",
    "TransactionResult": "00",
    "AvsResponse": "T",
    "PaymentMethodInfo":
    {
      "PaymentMethodID": "48a5bf91-a076-4719-9615-d1dc630e39ca",
      "PaymentMethodType": "Visa",
      "ObfuscatedAccountNumber": "474747*****4747",
      "ExpirationDate": "0117",
      "AccountName": "John Smith",
      "BillingInformation":
      {
        "Address1": "3400 N. Ashton Blvd",
        "Address2": "Suite 200",
        "Address3": "",
        "City": "Lehi",
        "State": "UT",
        "ZipCode": "84043",
        "Country": "USA",
        "TelephoneNumber": "",
        "Email": ""
      },
      "Description": "",
      "Priority": 55,
      "DateCreated": "2016-02-01T16:32:56.307",
      "Protected": true
    }
  }
}
```

```
    },
    "GrossAmt": 1000,
    "NetAmt": 948,
    "PerTransFee": 25,
    "Rate": 2.69,
    "GrossAmtLessNetAmt": 52,
    "CVVResponseCode": "M",
    "CurrencyConversionRate": 1,
    "CurrencyConvertedAmount": 1000,
    "CurrencyConvertedCurrencyCode": 840
  },
  "Result":
  {
    "ResultValue": "SUCCESS",
    "ResultCode": "00",
    "ResultMessage": ""
  }
}
```

Sample JSON response data for an unused Hosted Transaction Identifier:

```
{
  "HostedTransaction": null,
  "Result": {
    "ResultValue": "SUCCESS",
    "ResultCode": "00",
    "ResultMessage": ""
  }
}
```

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