Version 6.18.6

PROTECTPAY® APPLICATION PROGRAMMING INTERFACE

Instructions to Interface with ProPay® ProtectPay®

PROPAY
A TSYS® Company

Date	Version	Description	Author
2/20/2016	4.0.0	Updated Section 1 Description of ProtectPay Updated and Added new description and new diagram of ProtectPay Added new section for describing details of ProtectPay Objects Updated Section 2 Integrating ProtectPay Added new section for consuming the SOAP,REST and WSDL interfaces of ProtectPay Updated Section 3 Definitions of Methods Added Core ProtectPay Methods Added REST Interface Added SOAP Interface Added WSDL Interface Added Object Models Added Request Values Added Response Values Updated all method requirements and restrictions **This manual succeeds the following API Manuals:** ***PROPAYPROTECTPAY: SOAP API v3.2.2** ***PROPAYPROTECTPAY: REST API v1.1.0** **Previous Manuals should be discarded**	Steven Barnett Jared James Tanner Olsen Elizabeth Thompson
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1.0 ProPay® ProtectPay® Application Programming Interface

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.

For additional resources please visit:

- See ProtectPay API Manual Appendix for a list of response values returned by ProtectPay.
- See ProtectPay API Manual Appendix for a list of supported Processors, Gateways and Service Providers.
- See ProtectPay API Manual Appendix for a list of supported Swipe Devices.

Important Concepts

- ProtectPay is not a Processor or Gateway; it is a secure collection of sensitive payment data.
- ProtectPay stores data securely for both single and recurring or subsequent payments using industry best practices.
- ProtectPay utilizes a proprietary interface to process transactions through several major gateways, processors and services providers.
- ProtectPay supports swipe transactions through integration of supported swipe devices.

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.

Updated manuals are available at www.propay.com/Resources.

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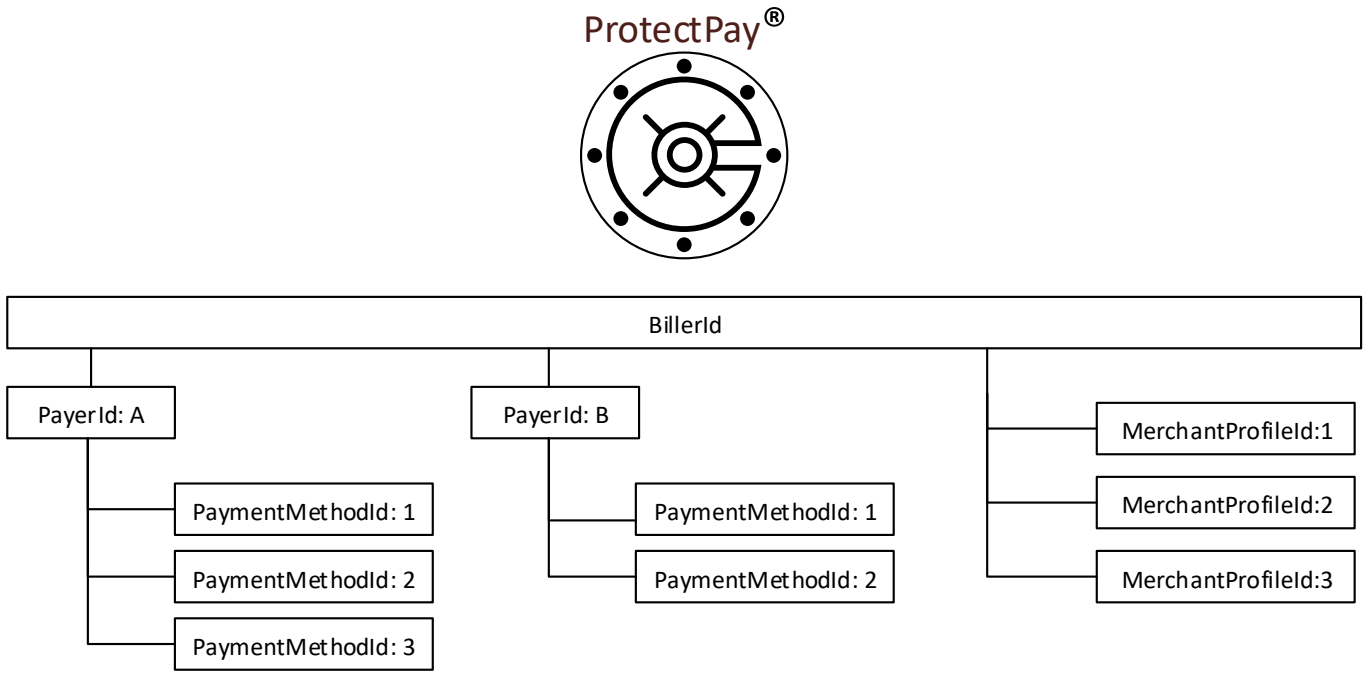
1.1 Description of ProtectPay

ProtectPay is an organized hierarchy of ownership based on a BillerId. A BillerId has ownership of MerchantProfileIds and PayerIds created under it. PayerIds have ownership of PaymentMethodIds created under them.



MerchantProfileId

In order to process payments using ProtectPay, a BillerId must have a payment processor. ProtectPay utilizes a proprietary interface to connect to and with other payment processors and gateways. For a list of supported gateways please reference ProtectPay API Manual Appendix. In order to process payments using ProtectPay a client must create a MerchantProfileId that connects ProtectPay to the supported processor of choice. The MerchantProfileId is a static record of the API authentication and processing credentials for the specified processor and is used in transactions to specify which processor a transaction is to be processed against. A MerchantProfileId only needs to be created one time for each processor and associated merchant account. The MerchantProfileIds should be stored by the client system and are required to be stored by the client for processing.

- See Section 4.1 for ProtectPay API methods for MerchantProfileId Management

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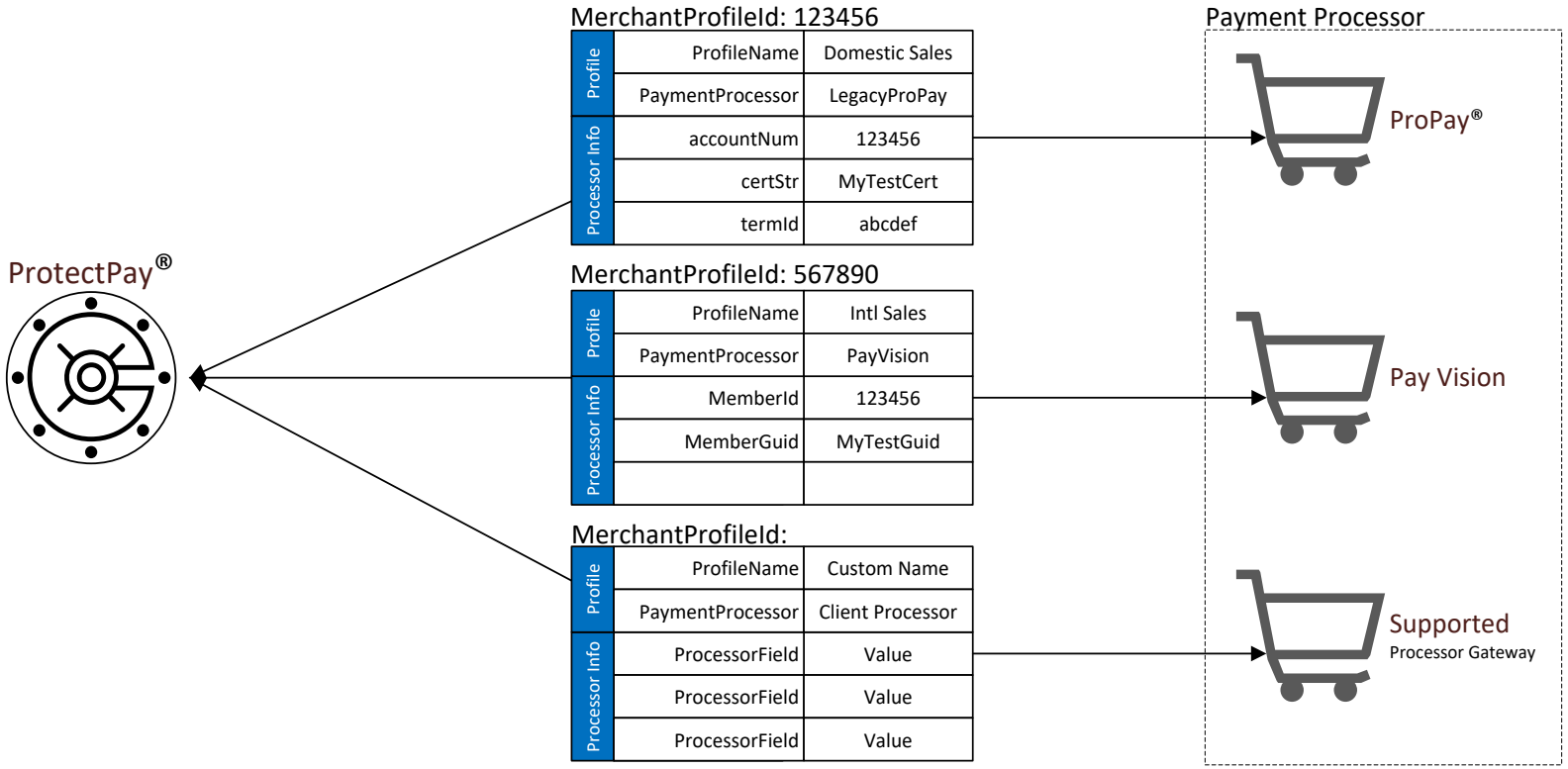

PayerId

A PayerId is a payer profile for a client's customer. This is referred to synonymously as either PayerId or PayerAccountId. This profile contains basic information such as the name and address of the client's customer. A PayerId is owned and can only be accessed by the BillerId that created it. PayerIds have ownership of PaymentMethodIds,and should be stored by the client system.

- See Section 4.2 for ProtectPay API methods for PayerId management methods.

PaymentMethodId

A PaymentMethodId is a token representing the sensitive payment information such as the account number and expiration date. It is created for a specified PayerId who has ownership of the PaymentMethodId. A PaymentMethodId can only be processed by the PayerId that owns it. PaymentMethodIds should be stored on the clients system in relation to the owning PayerId.

- See Section 4.3 for ProtectPay API methods for PaymentMethodId management methods.

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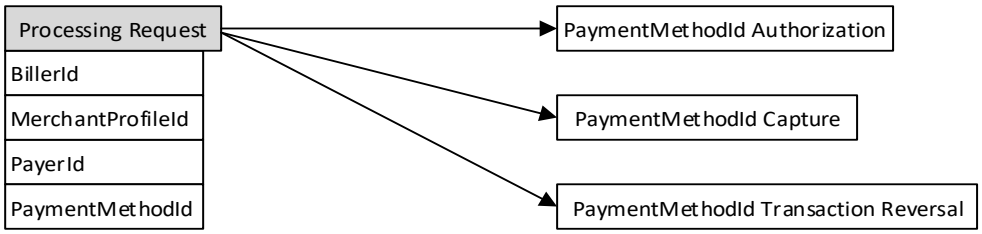
1.2 Processing with ProtectPay

ProtectPay PaymentMethodId Processing

A ProtectPay processing request is composed of the following:

1. BillerId
2. MerchantProfileId
3. PayerId
4. PaymentMethodId



❖ See Sections 4.4 -4.6 for ProtectPay API methods for PaymentMethodId Processing.

Processing Responses

ProtectPay transaction responses consist of the following:

- API Request Result
  - API Request Response Value
  - API Request Response Code
  - API Request Response Message
- Transaction Request Result
  - Transaction Request Response Value
  - Transaction Request Response Code
  - Transaction Request Response Message
- Transaction Details

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 ethod issuer. The reason will be included in the corresponding API request result, value, code and message. 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. The transaction details will be included only on a successful transaction request result.

❖ See ProtectPay API Appendix for a list of response values returned by ProtectPay.

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2.0 Interface Testing and Certification

To improve the customer experience, ProPay requires that developers test their software solutions before receiving credentials to process live transactions. This integration process is designed to assist the developer in building a robust solution that can handle the various responses that come from real time credit card and ACH processing. This process ultimately improves the end-user experience. Please plan accordingly when developing timelines and schedules to accommodate for testing against the ProPay Integration environment. Negotiated fees are not refunded in the production environment.

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.

Integrating a developed software solution to the ProPay web integration requires the following steps:

1. Request from a ProPay sales representative and/or account manager that integration API credentials to be sent.
2. Begin interfacing the appropriate ProtectPay API methods for specific project scope.
   - ❖ A ProPay sales representative and/or account manager will help determine which methods are required for the specific project scope.
3. Design, develop, build and test the software solution using the ProtectPay integration environment.
   a. The ProtectPay Integration REST base URI: https://xmltestapi.propay.com/protectpay
   b. The ProtectPay Integration SOAP URI: https://xmltestapi.propay.com/protectpay/sps.svc
   c. The ProtectPay Integration WSDL URI: https://xmltestapi.propay.com/protectpay/sps.svc?wsdl
   d. The ProtectPay Integration WSDL single file URI: https://xmltestapi.propay.com/protectpay/sps.svc?singlewsdl
   - ❖ Testing payment processing requires additional information provided by the client's chosen processor.
4. Certify the developed software solution against the ProPay integration environment.
   - ❖ Review the status of the integration certification with a ProPay sales representative and/or account manager.
5. Request Production (Live) Credentials from a ProPay sales representative and/or account manager.
   a. The ProtectPay Production REST base URI: https://api.propay.com/protectpay
   b. The ProtectPay Production SOAP URI: https://api.propay.com/protectpay/sps.svc
   c. The ProtectPay Production WSDL URI: https://api.propay.com/protectpay/sps.svc?wsdl
   d. The ProtectPay Production WSDL single file URI: https://api.propay.com/protectpay/sps.svc?singlewsdl

   - ❖ **Live Credentials MUST be kept confidential**

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2.1 Interface Troubleshooting and Technical Support

The ProPay Technical Support and Implementation teams are prepared to offer support to clients integrating to the ProtectPay API. ProPay processes thousands of transactions each second and as such in order to most quickly locate transaction requests clients should develop their solutions to be able to quickly provide the following information.

1. UTC Timestamp of the incident
2. URI Requests are being made to
3. HTTP Method being used
4. XML/SOAP/REST Request submitted 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.

ProtectPay is an agnostic gateway payment token solution. 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.2. 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. and, upon request, provide the raw request to and response from the gateway. The aforementioned information is required to be submitted to ProPay Technical Support in order to locate the specific transaction.

Should a client require additional troubleshooting they must contact the Processor Gateway for explanations as to specific failures. ProPay Technical Support cannot troubleshoot non ProPay merchant account issues.

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3.0 Technical Implementation

ProtectPay API Authentication

ProPay will generate a unique Authentication Token which must be included in all API transactions. ProPay will assign each client a unique BillerID which serves to represent the unique collections of MerchantProfileId's, PayerId's, and PaymentMethodId's that the BillerId will have access to and may create, edit and delete. The Authentication Token and BillerID are used to authenticate against the ProtectPay API as the username and password, respectively. The Authentication Token and BillerId are identical for whichever interface is chosen to implement.

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.

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 ensures that ProtectPay API request information is transmitted using the latest SSL/TLS encryption practices. SSL/TLS creates a secure connection between client and server over which encrypted information is sent. ProPay hosts the SSL/TLS certificate for this connection type. Each ProtectPay API method request, regardless of the interface, will negotiate an SSL connection automatically over port 443.

Usage of X509 Certificates

All of the ProtectPay API methods are performed over an SSL channel for which ProPay hosts the x509 certificate.

Specific ProPay API methods require the usage of a ProPay issued X509 certificate as an added measure of security where ProPay has deemed the method to carry additional risk factors. This certificate is an added layer of security and protection from loss in the event of credential theft. In this case ProPay, as a Certificate Authority, will issue an x509 certificate tied to the client's ProtectPay credentials. If an x509 certificate is required, the client should negotiate SSL communication using the assigned certificate instead of auto-negotiating over port 443.

In order to submit the x509 certificate with the ProPay API method requires the following:

1. Install the issued x509 certificate onto the client server.
2. Export the x509 certificate using the supplied password and default Machine Key Set into memory.
3. Base64 encode the x509 certificate.
4. Add 'X509Certificate' as an HTTP header and set its value to the result of step 3.

- The methods which require the usage of an x509 certificate for authentication are noted in this document under the individual method description.

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3.1 Best Practices

- When transitioning from the ProPay testing environments to the ProPay Live server's 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. In the case of the WSDL the production WSDL will automatically point to the production endpoint. The integration WSDL and the production WSDL are identical except for the endpoint.

- Depending on the nature of HTTP communication and Payment Processing it can take upwards of 1 minute before an API response is received. Timeouts should not be added that are less than this value. The ProtectPay API is designed to internally timeout and responds to an API request as such.

- When building a software solution, be sure to provide a simplistic 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.

- A MerchantProfileId is only required per processing account. They should not be created for each transaction. PayerId's also should not be created for each transaction request if a PayerId is already known. PaymentMethodId's also should not be created for each transaction if the PaymentMethodId is already stored by ProtectPay and owned by the known PayerId. These values (MerchantProfileId, PayerId, and PaymentMethodId) should be stored by the client's system. These values are not sensitive information as they only have meaning to ProtectPay. Having these values ready for a PaymentMethodId transaction request will drastically reduce the number of API requests and improve the overall efficiency of the developed software solution.

- 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.

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3.2 Interfaces

The ProtectPay API is an object based interface. The interfaces that can be implemented are REST, SOAP and the WSDL. For the purposes of this manual SOAP refers to formatted XML while the WSDL, which contains all the SOAP methods, refers to Classes and Objects that are XML-serialized. Regardless of which interface is consumed, the Objects are identical between all three. In cases where additional explanation is required for ambiguous elements in nested objects they are indicated in each method as object.element.

3.2.1 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.

The ProtectPay Integration environment Base URI is: https://xmltestapi.propay.com

API Authorization

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 TXlCaWxsZXJJZDpNeUF1dGhUb2tlbg==
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

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Resource URI and HTTP Methods

The ProtectPay REST API request URI is comprised of a Base URI with a Resource URI appended to it. It is important a developer understand that a Resource URI is re-used multiple times for different functions based on the HTTP verb of the request. It is also important that a developer understand that each request category has a different resource URI that may or may not be shared with other API methods. Plesae check regularly the resource URI and HTTP verb being used when making API method requests.

Example:

Host: https://xmltestapi.propay.com
Resource: /protectpay/merchantprofiles
HTTP Method: PUT

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

Null values

Developers should be prepared to handle null values. In case of a null value the ProtectPay REST API may return the following:

- The element may not be returned
- The element may be returned as :null
  *This is the forward direction of the REST API returning null values

Missing REST Interface Methods

The following ProtectPay API methods do not currently have a REST interface:

1. MerchantProfileId Management
    a. Edit MerchantProfileId
    b. Get MerchantProfileId Details

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3.2.2 Simple Object Access Protocol (SOAP) Interface

Any SOAP-enabled development framework can be used to consume to ProPay ProtectPay API. It is possible for a developer who does not wish to use SOAP or a SOAP toolkit to manually POST raw xml data to the ProtectPay API. If this direction is chosen by the developer it is important to remember to use the HTTP method: POST and not the HTTP method: GET. When posting SOAP XML, field order of the child elements and objects matters according to the protocol specification. When sending SOAP XML, it is also required to add 'SOAP Action' as an HTTP header and set its value to the following:

SOAP Action: http://propay.com/SPS/contracts/SPSService/{SOAPAction}

The ProtectPay Integration environment SOAP URI is: https://xmltestapi.propay.com/protectpay/sps.svc

API Authorization

The client's AuthorizationToken and BillerId must be passed in each SOAP XML request for every request in the con:identification or con:id SOAP XML child element. The API sample requests will demonstrate which is used by which method. Please review the sample SOAP-XML when determining which ID object to use.

```
<con:identification>
     <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
     <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
</con:identification>

 <con:id>
      <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
      <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
 </con:id>
```

Sample HTTP Header

HTTP Header Field	Value
Content-Length	*Varies Depending on Length of Content submitted
Content-Type	text/xml;charset=UTF-8
Method	POST
SOAP Action	http://propay.com/SPS/contracts/SPSService/{SOAP Action}

- Where {SOAP Action} is the appropriate action of the API method.

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Null values

Developers should be prepared to handle null values. In case of a null value the ProtectPay SOAP-XML API may return the following:

- The element may not be returned
- The element may be returned as an empty value <element></element>
- The element may be returned as a self closed value <element />
- The element may be returned as: < element i:nil="true" />

❖ This is the forward direction of the SOAP XML API returning null values

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3.3.3 Web Services Description Language (WSDL) Interface

The ProtectPay API WSDL describes the ProtectPay web service and the operations exposed through a set of definitions. Due to the number of Integrated Development Environments (IDEs), a developer will need to understand how to import the ProtectPay WSDL and create the classes and class objects from it on their chosen development platform. The WSDL should be downloaded to the client server and referenced statically for some development platforms. Some platforms excel at consuming the ProtectPay WSDL through the URI at runtime. It is the developer's responsibility to determine which is better for his or her chosen environment and development platform.

ProPay may update the WSDL during regularly scheduled version updates. ProPay will communicate changes to the underlying objects to clients prior to version updates. ProPay offers an environment to test upcoming changes with version updates and it is the responsibility of the client to validate that changes do not impact his or her developed software solution prior the version update. The ProtectPay WSDL conforms to the WSDL 1.1 standard.

Some IDE xml serializers will also import a variable "xSpecified". This indicates to the IDE's serializer to serialize the value. This must be set to true for the request element to be submitted to the API in each case it is present.

The ProtectPay Integration WSDL URI: https://xmltestapi.propay.com/protectpay/sps.svc?wsdl
The ProtectPay Integration WSDL single file URI: https://xmltestapi.propay.com/protectpay/sps.svc?singlewsdl

WSDL Client Object

The primary client object of ProtectPay is the SPSServiceClient interface. It contains the methods and operations for each ProtectPay API request and response object.

Object:	Notes
SPSServiceClient	The primary client object interface

API Authorization

The primary authorization object is the ID object. It has two elements AuthenticationToken, and BillerId. This object must be passed as the first argument in each operation unless noted to authenticate against the ProtectPay API.

Object:	Elements
ID	AuthenticationToken
	BillerAccountID

*This Object is required as Authentication for each operation unless noted.

Null values

Developers should be prepared to handle null values. In case of a null value the developed software should perform null checks prior to processing the rest of the response.

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4.0 ProtectPay API Methods

4.1 MerchantProfileId Management

The following API methods manage MerchantProfileIds
MerchantProfileIds are created under a specified BillerId. All of the following methods require the BillerId for the MerchantProfileId being managed.

4.1.1 Create a MerchantProfileId

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.

- A MerchantProfileId is required to process transactions against a specified PaymentMethodId.
- The merchant account processor must be supported by ProtectPay.

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 Appendixfor information about what values are required to create a MerchantProfileId for each supported gateway.

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 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

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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

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/MerchantProfiles/
Method	PUT
Authorization	See section 3.2.1 REST Interface

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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Interface: SOAP

How to call this method

{SOAP Action}	CreateMerchantProfile

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CreateMerchantProfile>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:merchantProfile>
            <prop:PaymentProcessor>LegacyProPay</prop:PaymentProcessor>
            <prop:ProcessorData>
               <!--Zero or more repetitions:-->
               <prop:ProcessorDatum>
                  <prop:ProcessorField>certStr</prop:ProcessorField>
                  <prop:Value>ad6212e08ae41f6a0a5eeac55d522b</prop:Value>
               </prop:ProcessorDatum>
               <prop:ProcessorDatum>
                  <prop:ProcessorField>accountNum</prop:ProcessorField>
                  <prop:Value>30312345</prop:Value>
               </prop:ProcessorDatum>
              <prop:ProcessorDatum>
                  <prop:ProcessorField>termId</prop:ProcessorField>
                  <prop:Value>113a22</prop:Value>
               </prop:ProcessorDatum>
            </prop:ProcessorData>
            <prop:ProfileName>505be90a-9256-45c5-85a5-5df6f62189c7</prop:ProfileName>
         </con:merchantProfile>
      </con:CreateMerchantProfile>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CreateMerchantProfileResponse xmlns="http://propay.com/SPS/contracts">
         <CreateMerchantProfileResult xmlns:a="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ProfileId>769987</a:ProfileId>
            <a:RequestResult xmlns:b="http://propay.com/SPS/types">
```

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```
            <b:ResultCode>00</b:ResultCode>
            <b:ResultMessage/>
            <b:ResultValue>SUCCESS</b:ResultValue>
         </a:RequestResult>
      </CreateMerchantProfileResult>
   </CreateMerchantProfileResponse>
</s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**CreateMerchantProfile(ID, MerchantProfileData)**	**CreateMerchantProfileResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements	Sub-Object	Elements:
MerchantProfileData	PaymentProcessor		
	ProfileName		
	ProcessorData	**ProcessorDatum[]**	ProcessorField
			Value

Response Object

Response Object:	Elements	Sub-Object	Elements
CreateMerchantProfileResult	ProfileId		
	RequestResult	**Result**	ResultValue
			ResultCode
			ResultMessage

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4.1.2 Edit MerchantProfileId

This method will update a MerchantProfileId's Elements.

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.
MerchantProfileData.ProfileName	String	50	Required	A name for the profile.
MerchantProfileData.PaymentProcessor	String	-	Required	Used in conjunction with value to describe the various fields necessary to create a link to a gateway. See Appendix for valid processor fields
MerchantProfileData.ProcessorData[]	Object	-	Optional	
ProcessorData[].ProcessorField	String	-	Optional	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	Optional	Used in conjunction with value to describe the various fields necessary to create a link to a payment processor.
ProfileId	Long	-	Optional	The MerchantProfileId.

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 Method Response Code. See Appendix for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See Appendix for possible returned Messages

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	Not Applicable
Method	Not Applicable
Authorization	Not Applicable

```
There is no REST interface for this method
```

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Interface: SOAP

How to call this method

{SOAP Action}	EditMerchantProfile

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:EditMerchantProfile>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:profileId>123456</con:profileId>
         <con:merchantProfile>
            <prop:PaymentProcessor>LegacyProPay</prop:PaymentProcessor>
            <prop:ProcessorData>
               <prop:ProcessorDatum>
                  <prop:ProcessorField>accountNum</prop:ProcessorField>
                  <prop:Value>32311456</prop:Value>
               </prop:ProcessorDatum>
            </prop:ProcessorData>
            <prop:ProfileName>NewProfileName</prop:ProfileName>
         </con:merchantProfile>
      </con:EditMerchantProfile>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <EditMerchantProfileResponse xmlns="http://propay.com/SPS/contracts">
         <EditMerchantProfileResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ResultCode>00</a:ResultCode>
            <a:ResultMessage/>
            <a:ResultValue>SUCCESS</a:ResultValue>
         </EditMerchantProfileResult>
      </EditMerchantProfileResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**EditMerchantProfile(ID,long,MerchantProfileData)**	**Result**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
Long	MerchantProfileId

Request Object:	Elements	Sub-Object	Elements:
MerchantProfileData	PaymentProcessor		
	ProfileName		
	ProcessorData	**ProcessorDatum[]**	ProcessorField
			Value

Response Object

Response Object	Elements
Result	ResultValue
	ResultCode
	ResultMessage

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4.1.3 Delete a MerchantProfileId

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

- This will discontinue any future transactions attempted against the MerchantProfileId.

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 Appendix for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See Appendix for possible returned Messages

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/MerchantProfiles/{ProfileId}/
Method	DELETE
Authorization	See section 3.2.1 REST Interface

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/MerchantProfiles/200801/
```

Sample JSON request data:

```
URI ONLY
```

Sample JSON response data:

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

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Interface: SOAP

How to call this method

{SOAP Action}	DeleteMerchantProfile

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:DeleteMerchantProfile>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:profileId>200801</con:profileId>
      </con:DeleteMerchantProfile>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <DeleteMerchantProfileResponse xmlns="http://propay.com/SPS/contracts">
         <DeleteMerchantProfileResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ResultCode>00</a:ResultCode>
            <a:ResultMessage/>
            <a:ResultValue>SUCCESS</a:ResultValue>
         </DeleteMerchantProfileResult>
      </DeleteMerchantProfileResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**DeleteMerchantProfile (ID, long)**	**Result**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
long	ProfileId

Response Object

Response Object	Elements
Result	ResultValue
	ResultCode
	ResultMessage

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4.1.4 Get MerchantProfileId Details

This method will get the available MerchantProfileId for the specified BillerId

- This method is not intended to be used to subvert a client's requirement to store MerchantProfileIds. Failure to store the MerchantProfileId will reduce client system performance. This method is exposed to allow a client to find a MerchantProfileId and retrieve details for a client to update data as needed.

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.

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
Profiles[]	Collection	A list of Profiles for the specified BillerId
Profiles[].ProfileId	String	The MerchantProfileId
Profiles[].Data[]	Collection	A List of Data for the MerchantProfileId
Data[].ProfileName	String	The MerchantProfileId Name
Data[].PaymentProcessor	String	The MerchantProfileId Payment Processor
Data[].ProcessorData[]	Collection	A List of Payment Processor Data
ProcessorData[].ProcessorField	String	Used in conjunction with value to describe the various fields necessary to create a link to the specified payment processor. See Appendix for valid processor fields
ProcessorData[].Value	String	Used in conjunction with value to describe the various fields necessary to create a link to the specified payment processor.

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	Not Applicable
Method	Not Applicable
Authorization	Not Applicable

```
There is no REST interface for this method
```

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Interface: SOAP

How to call this method

{SOAP Action}	GetMerchantProfiles

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:GetMerchantProfiles>
         <con:identification>
          <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
          <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
      </con:GetMerchantProfiles>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetMerchantProfilesResponse xmlns="http://propay.com/SPS/contracts">
         <GetMerchantProfilesResult xmlns:a="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:Profiles>
               <a:MerchantProfile>
                  <a:Data>
                     <a:PaymentProcessor>LegacyProPay</a:PaymentProcessor>
                     <a:ProcessorData>
                        <a:ProcessorDatum>
                           <a:ProcessorField>accountNum</a:ProcessorField>
                           <a:Value>123456789</a:Value>
                        </a:ProcessorDatum>
                        <a:ProcessorDatum>
                           <a:ProcessorField>certStr</a:ProcessorField>
                           <a:Value>TiAuNrehdkfEnScCaE9RcTcS7ReI9NG</a:Value>
                        </a:ProcessorDatum>
                        <a:ProcessorDatum>
                           <a:ProcessorField>forceRecurring</a:ProcessorField>
                           <a:Value/>
                        </a:ProcessorDatum>
                        <a:ProcessorDatum>
                           <a:ProcessorField>ipAddress</a:ProcessorField>
                           <a:Value/>
                        </a:ProcessorDatum>
                        <a:ProcessorDatum>
                           <a:ProcessorField>termid</a:ProcessorField>
```

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```
                        <a:Value>Re543NG</a:Value>
                     </a:ProcessorDatum>
                  </a:ProcessorData>
                  <a:ProfileName>Domestic</a:ProfileName>
               </a:Data>
               <a:ProfileId>123456</a:ProfileId>
            </a:MerchantProfile>
            <a:MerchantProfile>
               <a:Data>
                  <a:PaymentProcessor>LegacyProPay</a:PaymentProcessor>
                  <a:ProcessorData>
                     <a:ProcessorDatum>
                        <a:ProcessorField>accountNum</a:ProcessorField>
                        <a:Value>98765421</a:Value>
                     </a:ProcessorDatum>
                     <a:ProcessorDatum>
                        <a:ProcessorField>certStr</a:ProcessorField>
                        <a:Value>TiAuNrNwE234SNdndRcTcS7ReI9NG</a:Value>
                     </a:ProcessorDatum>
                     <a:ProcessorDatum>
                        <a:ProcessorField>forceRecurring</a:ProcessorField>
                        <a:Value>true</a:Value>
                     </a:ProcessorDatum>
                     <a:ProcessorDatum>
                        <a:ProcessorField>ipAddress</a:ProcessorField>
                        <a:Value/>
                     </a:ProcessorDatum>
                     <a:ProcessorDatum>
                        <a:ProcessorField>termid</a:ProcessorField>
                        <a:Value>Ahne34S</a:Value>
                     </a:ProcessorDatum>
                  </a:ProcessorData>
                  <a:ProfileName>ProfileA</a:ProfileName>
               </a:Data>
               <a:ProfileId>2010212</a:ProfileId>
            </a:MerchantProfile>
         </a:Profiles>
         <a:RequestResult xmlns:b="http://propay.com/SPS/types">
            <b:ResultCode>00</b:ResultCode>
            <b:ResultMessage/>
            <b:ResultValue>SUCCESS</b:ResultValue>
         </a:RequestResult>
      </GetMerchantProfilesResult>
   </GetMerchantProfilesResponse>
</s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**GetMerchantProfiles(ID)**	**GetMerchantProfilesResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Response Object

Response Object:	Elements	Sub-Object	Elements	Sub-Object	Elements	Sub-Object	Elements
GetMerchantProfilesResult	RequestResult	**Result**	ResultValue				
			ResultCode				
			ResultMessage				
	Profiles	**MerchantProfile[]**	ProfileId				
			Data	**MerchantProfileData**	ProfileName		
					PaymentProcessor		
					ProcessorData[]	**ProcessorDatum[]**	ProcessorField
							Value

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4.2 PayerId Management

The following API methods manage PayerIds.
PayerIds are created under a specified BillerId. Each of the following methods requires the BillerId for the PayerId being managed.

4.2.1 Create a PayerId

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

- Method: 4.7.1 'Get a Temp Token' method can also create a PayerId when using the ProtectPay Payer Management Interface: Seamless Payment Interface.

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 Appendix 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'

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/
Method	PUT
Authorization	See section 3.2.1 REST Interface

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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Interface: SOAP

How to call this method

{SOAP Action}	CreatePayerWithData

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CreatePayerWithData>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:data>
            <typ:EmailAddress>email@email.com</typ:EmailAddress>
            <typ:ExternalId1>CustomerNumber12</typ:ExternalId1>
            <typ:ExternalId2>123456</typ:ExternalId2>
            <typ:Name>John Smith</typ:Name>
         </con:data>
      </con:CreatePayerWithData>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CreatePayerWithDataResponse xmlns="http://propay.com/SPS/contracts">
         <CreatePayerWithDataResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ExternalAccountID>2443795125315076</a:ExternalAccountID>
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
         </CreatePayerWithDataResult>
      </CreatePayerWithDataResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**CreatePayerWithData(ID, PayerData)**	**CreateAccountInformationResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
PayerData	EmailAddress
	ExternalId1
	ExternalId2
	Name

Response Object

Response Object:	Elements	Sub-Object	Elements
CreateAccountInformationResult	ExternalAccountID		
	RequestResult	**Result**	ResultValue
			ResultCode
			ResultMessage

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4.2.2 Edit a PayerId

This method will update a PayerId Elements.

- Sending an empty string is not the same as sending 'nothing' or null. Sending an empty string will update the PayerId Element to the 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.
PayerAccountId	Long	16	Optional	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
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

Response values defined

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

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Interface: REST

How to call this method

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

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/4968897011139969/
```

Sample JSON request data:

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

Sample JSON response data:

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

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Interface: SOAP

How to call this method

{SOAP Action}	EditPayerV2

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:EditPayerV2>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:request>
            <prop:PayerAccountId>4968897011139969<prop:PayerAccountId>
            <prop:UpdatedData>
               <typ:EmailAddress/>
               <typ:ExternalId1/>
               <typ:ExternalId2/>
               <typ:Name>Edited Account Name</typ:Name>
            </prop:UpdatedData>
         </con:request>
      </con:EditPayerV2>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample raw XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <EditPayerResponse xmlns="http://propay.com/SPS/contracts">
        <EditPayerV2Result xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ResultCode>313</a:ResultCode>
            <a:ResultMessage>Payer account ID is not present or wrong size</a:ResultMessage>
            <a:ResultValue>FAILURE</a:ResultValue>
         </EditPayerV2Result>
      </EditPayerResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**EditPayerV2(ID, EditPayerRequest)**	**Result**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements	Sub-Object	Elements
EditPayerRequest	EmailAddress		
	PayerAccountId		
	UpdatedData	**PayerData**	EmailAddress
			ExternalId1
			ExternalId2
			Name

Response Object

Response Object	Elements
Result	ResultValue
	ResultCode
	ResultMessage

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4.2.3 Delete a PayerId

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 Appendix for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See Appendix for possible returned Messages

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Interface: REST

How to call this method

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

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/2443795125315076/
```

Sample JSON request data:

```
URI ONLY
```

Sample JSON response data:

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

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Interface: SOAP

How to call this method

{SOAP Action}	DeletePayer

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:DeletePayer>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:payerAccountId>2443795125315076</con:payerAccountId>
      </con:DeletePayer>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <DeletePayerResponse xmlns="http://propay.com/SPS/contracts">
         <DeletePayerResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ResultCode>00</a:ResultCode>
            <a:ResultMessage/>
            <a:ResultValue>SUCCESS</a:ResultValue>
         </DeletePayerResult>
      </DeletePayerResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**DeletePayer(ID, string)**	**Result**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object	Elements
String	PayerAccountId

Response Object

Response Object	Elements
Result	ResultValue
	ResultCode
	ResultMessage

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4.2.4 Get PayerId Details

This method will retrieve the details of a specified PayerId by search of the following criteria:

- EmailAddress
- ExternalId1
- ExternalId2
- Name

❖ This method is not intended to be used to subvert a client's requirement to store the PayerId. Failure to store PayerId will reduce client system performance. This method is exposed to allow a client to find a specified PayerId and retrieve details for a client to update data as needed.

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.
EmailAddress	String	100	Required*	Used to select a payer.
ExternalId1	String	50	Required*	Used to select a payer. This is a custom identifier rather than ProtectPay's.
ExternalId2	String	50	Required*	Used to select a payer. This is a custom identifier rather than ProtectPay's.
Name	String	50	Required*	Used to select a payer.

❖ *At least one of these three values must be provided to execute a search.

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
Payers[]	Collection	A List of PayerIds
Payers[].payerAccountId	String	PayerId
Payers[].Name	String	PayerId Name
Payers[].ExternalAccountId1	String	PayerId custom identifier
Payers[].ExternalAccountId2	String	PayerId customer identifier

❖ If no PayerId is found the method will return a success and no PayerId data

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Interface: REST

How to call this method:

HTTP Element	Value
Resource URI	/protectpay/Payers/?name={name}&externalId1={externalId1}&externalId2={externalId2}
Method	GET
Authorization	See section 3.2.1 REST Interface

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/?name=John/
```

Sample JSON request data:

```
URI ONLY
```

Sample JSON response data:

```
{
   "RequestResult":    {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
   },
   "Payers":    [
            {
         "payerAccountId": "123456789",
         "Name": "John",
         "ExternalId1": "4567",
         "ExternalId2": ""
      },
            {
         "payerAccountId": "234567890",
         "Name": "John",
         "ExternalId1": "1234",
         "ExternalId2": ""
      }
   ]
}
```

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Interface: SOAP

How to call this method

{SOAP Action}	GetPayers

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:GetPayers>
         <con:billerId>
            <typ:AuthenticationToken>524a7831-de5e-4d5f-870d-2e366a06a521</typ:AuthenticationToken>
            <typ:BillerAccountId>5881449043394565</typ:BillerAccountId>
         </con:billerId>
         <con:criteria>
            <typ:EmailAddress> </typ:EmailAddress>
            <typ:ExternalId1></typ:ExternalId1>
            <typ:ExternalId2></typ:ExternalId2>
            <typ:Name> John </typ:Name>
         </con:criteria>
      </con:GetPayers>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample raw XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetPayersResponse xmlns="http://propay.com/SPS/contracts">
         <GetPayersResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:Payers>
               <a:PayerInfo>
                  <a:ExternalId1/>
                  <a:ExternalId2/>
                  <a:Name>John</a:Name>
                  <a:payerAccountId>123456789</a:payerAccountId>
               </a:PayerInfo>
               <a:PayerInfo>
                  <a:ExternalId1>1234</a:ExternalId1>
                  <a:ExternalId2/>
                  <a:Name>John</a:Name>
                  <a:payerAccountId>234567890</a:payerAccountId>
               </a:PayerInfo>
               <a:PayerInfo>
                  <a:ExternalId1>1234</a:ExternalId1>
                  <a:ExternalId2/>
                  <a:Name>John</a:Name>
```

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```
                  <a:payerAccountId>8513189617692312</a:payerAccountId>
               </a:PayerInfo>
            </a:Payers>
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
         </GetPayersResult>
      </GetPayersResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**GetPayers(ID, PayerData)**	**GetPayersResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements:
PayerData	EmailAddress
	ExternalId1
	ExternalId2
	Name

Response Object

Response Object:	Elements	Sub-Object	Elements
GetPayersResult	RequestResult	**Result**	ResultValue
			ResultCode
			ResultMessage
	Payers	**PayerInfo[]**	payerAccountId
			Name
			ExternalId1
			ExternalId2

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4.3 PaymentMethodId Management

The following API methods manage PaymentMethodIds.
PaymentMethodIds are created under a specified PayerId. Each of the following methods requires the PayerId and BillerId for the PaymentMethodId being managed.

4.3.1 Create a PaymentMethodId

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

- A PayerAccountId must already exist and belong to the BillerId that is using this method.
- 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.
- This method may necessitate supplying documentation of PCI DSS compliance, or otherwise obtaining approval from a ProPay compliance representative.

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. Current allowed values are: ▪ USA ▪ CAN
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.

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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: ▪ SaveNew -default if not specified ▪ Error -return error if duplicate found ▪ ReturnDup -causes payment method id to be returned when duplicate found
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 MMYY. 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: ▪ Visa ▪ MasterCard ▪ AMEX ▪ Discover ▪ DinersClub ▪ JCB ▪ ProPayToProPay ▪ Checking ▪ Savings ▪ Maestro (Only for use when connecting to PayVision Gateway) ▪ CarteBancaire (Only for use when connecting to PayVision Gateway) ▪ SEPA (Only for use when connecting to PayVision Gateway)
Priority	Integer		Optional	Used to explicitly set an order for the ProcessPayment transaction.
Protected	Boolean	5	Optional	Valid values are: ▪ true ▪ false 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;

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		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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Interface: REST

How to call this method

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

Sample REST request URI (Credit Card):

```
https://xmltestapi.propay.com/protectpay/Payers/2936134241579401/PaymentMethods/
```

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":""
   }
```

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```
}
```

Sample REST request URI (ACH):

```
https://xmltestapi.propay.com/protectpay/Payers/2936134241579401/PaymentMethods/
```

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":""
   }
}
```

Sample REST request URI (SEPA):

```
https://xmltestapi.propay.com/protectpay/Payers/2936134241579401/PaymentMethods/
```

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Sample JSON request data (SEPA):


```
{
   "PayerAccountId":"2936134241579401",
   "PaymentMethodType":"SEPA",
   "BankNumber":121000248,
   "AccountNumber":"AT1234567890",
   "ExpirationDate":null,
   "AccountCountryCode":"AUT",
   "AccountName":"Janis Joplin",
   "BillingInformation":
   {
      "Address1":"123 ABC St",
      "Address2":"Apt. A",
      "Address3":null,
      "City":"Some Place",
      "Country":"AUT",
      "Email":null,
      "State":"VA",
      "TelephoneNumber":null,
      "ZipCode":"12345"
   },
   "Description":"My Checking Account",
   "Priority":0,
   "DuplicateAction":null,
   "Protected":false
}
```


Sample JSON response data (SEPA):


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


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Interface: SOAP

How to call this method

{SOAP Action}	CreatePaymentMethod

Sample SOAP XML request including all mandatory and optional elements (Credit Card):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CreatePaymentMethod>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:pmAdd>
            <typ:AccountCountryCode>USA</typ:AccountCountryCode>
            <typ:AccountName>Janis Joplin</typ:AccountName>
            <typ:AccountNumber>4111111111111111</typ:AccountNumber>
            <typ:BankNumber>null</typ:BankNumber>
            <typ:BillingInformation>
               <typ:Address1>123 ABC St</typ:Address1>
               <typ:Address2>Apt. A</typ:Address2>
               <typ:Address3></typ:Address3>
               <typ:City>Some Place</typ:City>
               <typ:Country>USA</typ:Country>
               <typ:Email></typ:Email>
               <typ:State>AK</typ:State>
               <typ:TelephoneNumber></typ:TelephoneNumber>
               <typ:ZipCode>123456</typ:ZipCode>
            </typ:BillingInformation>
            <typ:Description>MyVisaCard</typ:Description>
            <typ:DuplicateAction></typ:DuplicateAction>
            <typ:ExpirationDate>0819</typ:ExpirationDate>
            <typ:PayerAccountId>2936134241579401</typ:PayerAccountId>
            <typ:PaymentMethodType>Visa</typ:PaymentMethodType>
            <typ:Priority>0</typ:Priority>
            <typ:Protected>false</typ:Protected>
         </con:pmAdd>
      </con:CreatePaymentMethod>
   </soapenv:Body>
</soapenv:Envelope>
```

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Sample SOAP XML Response (Credit Card):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CreatePaymentMethodResponse xmlns="http://propay.com/SPS/contracts">
         <CreatePaymentMethodResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:PaymentMethodId>adfe7415-edac-4cfc-813c-944d8fd52d73</a:PaymentMethodId>
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
         </CreatePaymentMethodResult>
      </CreatePaymentMethodResponse>
   </s:Body>
</s:Envelope>
```

Sample SOAP XML request including all mandatory and optional elements (ACH):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CreatePaymentMethod>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:pmAdd>
            <typ:AccountCountryCode>USA</typ:AccountCountryCode>
            <typ:AccountName>Janis Joplin</typ:AccountName>
            <typ:AccountNumber>1234567890</typ:AccountNumber>
            <typ:BankNumber>null</typ:BankNumber>
            <typ:BillingInformation>
               <typ:Address1>123 ABC St</typ:Address1>
               <typ:Address2>Apt. A</typ:Address2>
               <typ:Address3></typ:Address3>
               <typ:City>Some Place</typ:City>
               <typ:Country>USA</typ:Country>
               <typ:Email></typ:Email>
               <typ:State>AK</typ:State>
               <typ:TelephoneNumber></typ:TelephoneNumber>
               <typ:ZipCode>123456</typ:ZipCode>
            </typ:BillingInformation>
            <typ:Description>My Checking Account</typ:Description>
            <typ:DuplicateAction></typ:DuplicateAction>
            <typ:ExpirationDate></typ:ExpirationDate>
            <typ:PayerAccountId>2936134241579401</typ:PayerAccountId>
            <typ:PaymentMethodType>Checking</typ:PaymentMethodType>
            <typ:Priority>0</typ:Priority>
```

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```
            <typ:Protected>false</typ:Protected>
         </con:pmAdd>
      </con:CreatePaymentMethod>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response (ACH):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CreatePaymentMethodResponse xmlns="http://propay.com/SPS/contracts">
         <CreatePaymentMethodResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:PaymentMethodId>5eef2430-bcb4-45d3-b79d-1f560194b776</a:PaymentMethodId>
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
         </CreatePaymentMethodResult>
      </CreatePaymentMethodResponse>
   </s:Body>
</s:Envelope>
```

Sample SOAP XML request including all mandatory and optional elements (SEPA):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CreatePaymentMethod>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:pmAdd>
            <typ:AccountCountryCode>AUT</typ:AccountCountryCode>
            <typ:AccountName>Janis Joplin</typ:AccountName>
            <typ:AccountNumber>AT1234567890</typ:AccountNumber>
            <typ:BankNumber>null</typ:BankNumber>
            <typ:BillingInformation>
               <typ:Address1>123 ABC St</typ:Address1>
               <typ:Address2>Apt. A</typ:Address2>
               <typ:Address3></typ:Address3>
               <typ:City>Some Place</typ:City>
               <typ:Country>AUT</typ:Country>
               <typ:Email></typ:Email>
               <typ:State>VA</typ:State>
               <typ:TelephoneNumber></typ:TelephoneNumber>
               <typ:ZipCode>123456</typ:ZipCode>
            </typ:BillingInformation>
```

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```
            <typ:Description>My Checking Account</typ:Description>
            <typ:DuplicateAction></typ:DuplicateAction>
            <typ:ExpirationDate></typ:ExpirationDate>
            <typ:PayerAccountId>2936134241579401</typ:PayerAccountId>
            <typ:PaymentMethodType>SEPA</typ:PaymentMethodType>
            <typ:Priority>0</typ:Priority>
            <typ:Protected>false</typ:Protected>
         </con:pmAdd>
      </con:CreatePaymentMethod>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response (SEPA):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CreatePaymentMethodResponse xmlns="http://propay.com/SPS/contracts">
         <CreatePaymentMethodResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:PaymentMethodId>5eef2430-bcb4-45d3-b79d-1f560194b776</a:PaymentMethodId>
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
         </CreatePaymentMethodResult>
      </CreatePaymentMethodResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**CreatePaymentMethod(ID, PaymentMethodAdd)**	**CreatePaymentMethodResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object	Elements	Sub-Object	Elements
PaymentMethodAdd	AccountCountryCode		
	AccountName		
	AccountNumber		
	BankNumber		
	Description		
	DuplicateAction		
	ExpirationDate		
	PayerAccountId		
	PaymentMethodType		
	Priority		
	Protected		
	BillingInformation	**Billing**	Address1
			Address2
			Address3
			City
			Country
			Email
			State
			TelephoneNumber
			ZipCode

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Response Object

Response Object	Elements	Sub-Object	Elements
CreatePaymentMethodResult	PaymentMethodID		
	RequestResult	**Result**	ResultValue
			ResultCode
			ResultMessage

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4.3.2 Create a PaymentMethodId 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.

- A PayerAccountId must already exist and belong to the BillerId that is using this method.
- 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: ▪ IdTechUniMag ▪ MagTekFlash ▪ MagTekM20 ▪ MagTekADynamo ▪ MagTekDynamag ▪ RoamData
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:

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				▪ SaveNew -default if not specified ▪ Error -return error if duplicate found ▪ ReturnDup -causes payment method id to be returned when duplicate found
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: ▪ true ▪ false 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 Appendix for possible returned Values
RequestResult.ResultMessage	String	The 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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Interface: REST

How to call this method

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

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/2105876672904426/PaymentMethods/
```

Sample JSON request data:


```
{
   "PayerAccountId":"2105876672904426",
   "EncryptedTrackData":
   {
      "EncryptedTrackData":"7W0pjXRuLlZxEE6ZrHJKHZjK9Xyxfi3Gf56qZxwYCjCU5isNKya/TKiyNcchQP6Ak24rZw9z2loPo05vE2XLag==",
      "EncryptedTrack2Data":"acUx7zcRE8AhyJKZIaOVAxFDQbvO4LRfW/qBjvUzZ3unR0HWgu6LKQ==",
      "DeviceType":"MagTekDynamag",
      "KeySerialNumber":"kBAkCwBgHQAAXA=="
   },
   "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":
   {
```


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


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How to call this method

{SOAP Action}	CreatePaymentMethodFromEncryptedTrackData

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:prop1="http://schemas.datacontract.org/2004/07/Propay.Contracts.Common.Structures" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CreatePaymentMethodFromEncryptedTrackData>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:request>
            <prop:AccountCountryCode>USA</prop:AccountCountryCode>
            <prop:AccountName>TestAccount</prop:AccountName>
            <prop:BillingInformation>
               <typ:Address1>3400 N Ashton Blvd</typ:Address1>
               <typ:Address2>Suite 200</typ:Address2>
               <typ:Address3></typ:Address3>
               <typ:City>Lehi</typ:City>
               <typ:Country>USA</typ:Country>
               <typ:Email>test@test.com</typ:Email>
               <typ:State>UT</typ:State>
               <typ:TelephoneNumber>801-340-5600</typ:TelephoneNumber>
               <typ:ZipCode>84043</typ:ZipCode>
            </prop:BillingInformation>
            <prop:Description>Test Payment Method</prop:Description>
            <prop:DuplicateAction>SaveNew</prop:DuplicateAction>
            <prop:EncryptedTrackData>
               <prop1:DeviceType>MagTekDynamag</prop1:DeviceType>

<prop1:EncryptedTrack2Data>7W0pjXRuLlZxEE6ZrHJKHZjK9Xyxfi3Gf56qZxwYCjCU5isNKya/TKiyNcchQP6Ak24rZw9z2loPo05vE2XLag==</prop1:EncryptedTrack2
Data>
               <prop1:EncryptedTrackData>acUx7zcRE8AhyJKZIaOVAxFDQbvO4LRfW/qBjvUzZ3unR0HWgu6LKQ==</prop1:EncryptedTrackData>
               <prop1:KeySerialNumber>kBAkCwBgHQAAXA==</prop1:KeySerialNumber>
            </prop:EncryptedTrackData>
            <prop:PayerAccountId>2105876672904426</prop:PayerAccountId>
            <prop:Priority>0</prop:Priority>
            <prop:Protected>false</prop:Protected>
         </con:request>
      </con:CreatePaymentMethodFromEncryptedTrackData>
   </soapenv:Body>
</soapenv:Envelope>
```

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Sample SOAP XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CreatePaymentMethodResponse xmlns="http://propay.com/SPS/contracts">
         <CreatePaymentMethodResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:PaymentMethodId>adfe7415-edac-4cfc-813c-944d9cd52d73</a:PaymentMethodId>
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
         </CreatePaymentMethodResult>
      </CreatePaymentMethodResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	CreatePaymentMethodFromEncryptedTrackData(ID,AddEncryptedTrackPaymentMethodRequest)	CreatePaymentMethodResult

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object	Elements	Sub-Object	Elements
AddEncryptedTrackPaymentMethodRequest	AccountCountryCode		
	AccountName		
	Description		
	DuplicateAction		
	PayerAccountID		
	Priority		
	Protected		
	Billing Information	**Billing**	Address1
			Address2
			Address3
			City
			Country
			Email
			State
			TelephoneNumber
			ZipCode
	EncryptedTrackData	**EncryptedTracks**	DeviceType
			EncryptedTrackData
			EncryptedTrack2Data
			KeySerialNumber

Response Object

Response Object	Elements	Sub-Object	Elements
CreatePaymentMethodResult	PaymentMethodID		
	RequestResult	**Result**	ResultValue
			ResultCode
			ResultMessage

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4.3.3 Edit a PaymentMethodId

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: ▪ Checking ▪ Savings ▪ LoanCredit ▪ GeneralLedger ▪ SEPA (Only for use when connecting to PayVision Gateway)
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 MMYY. 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: ▪ true ▪ false Payment methods set to 'true' cannot be deleted by a payer.

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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.

Edit ACH Payment Method

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
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.
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 Appendix for possible returned Values
RequestResult.ResultMessage	String	The Method Response Message. See Appendix for possible returned Messages

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Interface: REST

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 REST request URI (Credit Card):

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/a4811b70-392e-45b3-93cf-b724b6e3b633/
```

Sample JSON request data (Credit Card):

```
{
   "PayerAccountId":"5823760912097888",
   "PaymentMethodId":"a4811b70-392e-45b3-93cf-b724b6e3b633",
   "ExpirationDate":"0820",
   "AccountName":"Janis Joplin",
   "BankAccountType":null,
   "BillingInformation":
   {
      "Address1":"321ABC 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
}

Sample JSON response data (Credit Card):
{
   "ResultValue":"SUCCESS",
   "ResultCode":"00",
   "ResultMessage":""
}
```

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Sample REST request URI (ACH):

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/a4811b70-392e-45b3-93cf-b724b6e3b633/
```

Sample JSON request data (ACH):


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


Sample JSON response data (ACH):


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


Sample REST request URI (SEPA):

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/a4811b70-392e-45b3-93cf-b724b6e3b633/
```

Sample JSON request data (SEPA):


```
{
   "PayerAccountId":"5823760912097888",
   "PaymentMethodId":"a4811b70-392e-45b3-93cf-b724b6e3b633",
   "ExpirationDate":null,
   "AccountName":"Edited Account Name",
   "BankAccountType":"SEPA",
   "BillingInformation":
```


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```
    {
        "Address1":"321ABC St",
        "Address2":"Apt. A",
        "Address3":null,
        "City":null,
        "Country":null,
        "Email":null,
        "State":null,
        "TelephoneNumber":null,
        "ZipCode":null
    },
    "Description":"My Savings Account",
    "Priority":null,
    "AccountCountryCode":null,
    "Protected":null
}
```


Sample JSON response data (SEPA):


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


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Interface: SOAP

How to call this method

{SOAP Action}	EditPaymentMethod

Sample SOAP XML request including all mandatory and optional elements (Credit Card):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:EditPaymentMethod>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:pmu>
            <typ:AccountName>Edited Account Name</typ:AccountName>
            <typ:BankAccountType/>
            <typ:BillingInformation>
               <typ:Address1>321 ABC  St</typ:Address1>
               <typ:Address2/>
               <typ:Address3/>
               <typ:City/>
               <typ:Country/>
               <typ:Email/>
               <typ:State/>
               <typ:TelephoneNumber/>
               <typ:ZipCode/>
            </typ:BillingInformation>
            <typ:Description/>
            <typ:ExpirationDate>0320</typ:ExpirationDate>
            <typ:PayerAccountId>5823760912097888</typ:PayerAccountId>
            <typ:PaymentMethodID>a4811b70-392e-45b3-93cf-b724b6e3b633</typ:PaymentMethodID>
            <typ:Protected>false</typ:Protected>
         </con:pmu>
      </con:EditPaymentMethod>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response (Credit Card):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <EditPaymentMethodResponse xmlns="http://propay.com/SPS/contracts">
         <EditPaymentMethodResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ResultCode>00</a:ResultCode>
            <a:ResultMessage/>
            <a:ResultValue>SUCCESS</a:ResultValue>
```

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```
         </EditPaymentMethodResult>
      </EditPaymentMethodResponse>
   </s:Body>
</s:Envelope>
```

Sample SOAP XML request including all mandatory and optional elements (ACH):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types">
   <soapenv:Header/>
   <soapenv:Body>
      <con:EditPaymentMethod>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:pmu>
            <typ:AccountName>Edited Account Name</typ:AccountName>
            <typ:BankAccountType>Savings</typ:BankAccountType>
            <typ:BillingInformation>
               <typ:Address1>321 ABC  St</typ:Address1>
               <typ:Address2/>
               <typ:Address3/>
               <typ:City/>
               <typ:Country/>
               <typ:Email/>
               <typ:State/>
               <typ:TelephoneNumber/>
               <typ:ZipCode/>
            </typ:BillingInformation>
            <typ:Description>My Savings Account</typ:Description>
            <typ:ExpirationDate>0318</typ:ExpirationDate>
            <typ:PayerAccountId>5823760912097888</typ:PayerAccountId>
            <typ:PaymentMethodID>a4811b70-392e-45b3-93cf-b724b6e3b633</typ:PaymentMethodID>
            <typ:Protected>false</typ:Protected>
         </con:pmu>
      </con:EditPaymentMethod>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response (ACH):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <EditPaymentMethodResponse xmlns="http://propay.com/SPS/contracts">
         <EditPaymentMethodResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ResultCode>00</a:ResultCode>
            <a:ResultMessage/>
```

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```
            <a:ResultValue>SUCCESS</a:ResultValue>
         </EditPaymentMethodResult>
      </EditPaymentMethodResponse>
   </s:Body>
</s:Envelope>
```

Sample SOAP XML request including all mandatory and optional elements (SEPA):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types">
   <soapenv:Header/>
   <soapenv:Body>
      <con:EditPaymentMethod>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:pmu>
            <typ:AccountName>Edited Account Name</typ:AccountName>
            <typ:BankAccountType>SEPA</typ:BankAccountType>
            <typ:BillingInformation>
               <typ:Address1>321 ABC  St</typ:Address1>
               <typ:Address2/>
               <typ:Address3/>
               <typ:City/>
               <typ:Country/>
               <typ:Email/>
               <typ:State/>
               <typ:TelephoneNumber/>
               <typ:ZipCode/>
            </typ:BillingInformation>
            <typ:Description>My Savings Account</typ:Description>
            <typ:ExpirationDate>0318</typ:ExpirationDate>
            <typ:PayerAccountId>5823760912097888</typ:PayerAccountId>
            <typ:PaymentMethodID>a4811b70-392e-45b3-93cf-b724b6e3b633</typ:PaymentMethodID>
            <typ:Protected>false</typ:Protected>
         </con:pmu>
      </con:EditPaymentMethod>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response (SEPA):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <EditPaymentMethodResponse xmlns="http://propay.com/SPS/contracts">
         <EditPaymentMethodResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ResultCode>00</a:ResultCode>
```

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```
            <a:ResultMessage/>
            <a:ResultValue>SUCCESS</a:ResultValue>
         </EditPaymentMethodResult>
      </EditPaymentMethodResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**EditPaymentMethod(ID, PaymentMethodUpdate)**	**Result**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements	Sub-Object	Elements
PaymentMethodUpdate	AccountName		
	BandAccountType		
	Description		
	ExpirationDate		
	PayerAccountID		
	PaymentMethodID		
	Protected		
	BillingInformation	**Billing**	Address1
			Address2
			Address3
			City
			Country
			Email
			State
			TelephoneNumber
			ZipCode

Response Object

Response Object	Elements
Result	ResultValue
	ResultCode
	ResultMessage

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4.3.4 Delete a PaymentMethodId

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.

- A PaymentMethodId must exist and belong to the PayerId specified in order to satisfy this method's requirements.

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

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Interface: REST

How to call this method

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

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/a4811b70-392e-45b3-93cf-b724b6e3b633/
```

Sample JSON request data:

```
URI ONLY
```

Sample JSON response data:

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

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Interface: SOAP

How to call this method

{SOAP Action}	DeletePaymentMethod

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:DeletePaymentMethod>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:payerAccountId>5823760912097888</con:payerAccountId>
         <con:paymentID>a4811b70-392e-45b3-93cf-b724b6e3b633</con:paymentID>
      </con:DeletePaymentMethod>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <DeletePaymentMethodResponse xmlns="http://propay.com/SPS/contracts">
         <DeletePaymentMethodResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:ResultCode>00</a:ResultCode>
            <a:ResultMessage/>
            <a:ResultValue>SUCCESS</a:ResultValue>
         </DeletePaymentMethodResult>
      </DeletePaymentMethodResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**DeletePaymentMethod(ID,string1,string2)**	**Result**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
string1	PayerAccountID
string2	PaymentMethodID

Response Object

Response Object	Elements
Result	ResultValue
	ResultCode
	ResultMessage

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4.3.5 Get PaymentMethodId Details

This method will retrieve the details of a specified PaymentMethodId for a specified PayerId.

- Sensitive data such as card or bank account number will be returned masked and/or obfuscated.
- This method is not intended to be used to subvert a client's requirement to store the PaymentMethodId. Failure to store the PaymentMethodId will reduce client system performance. This method is exposed to allow a client to find a specified PaymentMethodId and retrieve details for a client to update data as needed.

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	The PayerId

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
PaymentMethods[]	Collection	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
PaymentMethod.AccountName	String	The name on the account for a payment method. *Stored if requested to store payment
PaymentMethod.BillingInformation	Object	The PaymentMethodId Billing Information Details
BillingInformation.Address1	String	The address on the account for a payment method. *Stored if requested to store payment
BillingInformation.Address2	String	The address on the account for a payment method. *Stored if requested to store payment
BillingInformation.Address3	String	The address on the account for a payment method. *Stored if requested to store payment
BillingInformation.City	String	The city on the account for a payment method. *Stored if requested to store payment
BillingInformation.Country	String	The country on the account for a payment method. *Stored if requested to store payment
BillingInformation.Email	String	The email on the account for a payment method. *Stored if requested to store payment
BillingInformation.State	String	The state on the account for a payment method. *Stored if requested to store payment
BillingInformation.TelephoneNumber	String	The telephone number on the account for a payment method. *Stored if requested to store payment
BillingInformation.ZipCode	String	The postal code on the account for a payment method. *Stored if requested to store payment
PaymentMethodInfo.DateCreated	String	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

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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; ▪ Visa ▪ MasterCard ▪ AMEX ▪ Discover ▪ DinersClub ▪ JCB ▪ ProPayToProPay ▪ Checking ▪ Savings ▪ Maestro ▪ CarteBancaire ▪ SEPA
PaymentMethodInfo.Priority	String	Used to explicitly set an order for the ProcessPayment transaction
PaymentMethodInfo.Protected	Boolean	Payment methods set to 'true' cannot be deleted by a payer

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Interface: REST

How to call this method:

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

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/2936134241579401/PaymentMethods/
```

Sample JSON request data:

```
URI ONLY
```

Sample JSON response data:


```
{
   "PaymentMethods":    [
         {
         "PaymentMethodID": "46cafb6a-3d67-4242-9345-8cab9df1e43b",
         "PaymentMethodType": "Visa",
         "ObfuscatedAccountNumber": "474747******4747",
         "ExpirationDate": "1215",
         "AccountName": "John Q Test",
         "BillingInformation":          {
            "Address1": "123 A St.",
            "Address2": "Suite 200",
            "Address3": "",
            "City": "Orem",
            "State": "UT",
            "ZipCode": "84058",
            "Country": "USA",
            "TelephoneNumber": "5555555555",
            "Email": "joe@example.com"
         },
         "Description": "asdf",
         "Priority": 1,
         "DateCreated": "2015-04-07T15:08:40.573",
         "Protected": false
      },
            {
         "PaymentMethodID": "a30dt3a9-d4c0-4f24-a398-95715ea7c494",
         "PaymentMethodType": "Visa",
         "ObfuscatedAccountNumber": "474747******4747",
         "ExpirationDate": "1215",
         "AccountName": "John Q. Test",
         "BillingInformation":          {
```


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```
            "Address1": "123 A St.",
            "Address2": "Suite 200",
            "Address3": "",
            "City": "Orem",
            "State": "UT",
            "ZipCode": "84058",
            "Country": "USA",
            "TelephoneNumber": "5555555555",
            "Email": "joe@example.com"
         },
         "Description": "qwerty",
         "Priority": 2,
         "DateCreated": "2015-04-07T14:47:26.26",
         "Protected": true
      }
   ]
}
```


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Interface: SOAP

How to call this method

{SOAP Action}	GetAllPayerPaymentMethods

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:GetAllPayerPaymentMethods>
         <con:billerIdentification>
            <typ:AuthenticationToken>524a7831-de5e-4d5f-870d-2e366a06a521</typ:AuthenticationToken>
            <typ:BillerAccountId>5881449043394565</typ:BillerAccountId>
         </con:billerIdentification>
         <con:payerAccountId>1045899410011966</con:payerAccountId>
      </con:GetAllPayerPaymentMethods>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample raw XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetAllPayerPaymentMethodsResponse xmlns="http://propay.com/SPS/contracts">
         <GetAllPayerPaymentMethodsResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:PaymentMethods>
               <a:PaymentMethodInformation>
                  <a:AccountName>John Q Test</a:AccountName>
                  <a:BillingInformation>
                     <a:Address1>123 A St.</a:Address1>
                     <a:Address2>Suite 200</a:Address2>
                     <a:Address3/>
                     <a:City>Orem</a:City>
                     <a:Country>USA</a:Country>
                     <a:Email>joe@example.com</a:Email>
                     <a:State>UT</a:State>
                     <a:TelephoneNumber>5555555555</a:TelephoneNumber>
                     <a:ZipCode>84058</a:ZipCode>
                  </a:BillingInformation>
                  <a:DateCreated>2015-04-07T15:08:40.573</a:DateCreated>
                  <a:Description>asdf</a:Description>
                  <a:ExpirationDate>1215</a:ExpirationDate>
                  <a:ObfuscatedAccountNumber>474747******4747</a:ObfuscatedAccountNumber>
                  <a:PaymentMethodID>46cafb6a-3d67-4242-9345-8cab9df1e43b </a:PaymentMethodID>
                  <a:PaymentMethodType>Visa</a:PaymentMethodType>
                  <a:Priority>1</a:Priority>
                  <a:Protected>false</a:Protected>
               </a:PaymentMethodInformation>
```

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```
            <a:PaymentMethodInformation>
               <a:AccountName>John Q. Test</a:AccountName>
               <a:BillingInformation>
                  <a:Address1>123 A St.</a:Address1>
                  <a:Address2>Suite 200</a:Address2>
                  <a:Address3/>
                  <a:City>Orem</a:City>
                  <a:Country>USA</a:Country>
                  <a:Email>joe@example.com</a:Email>
                  <a:State>UT</a:State>
                  <a:TelephoneNumber>5555555555</a:TelephoneNumber>
                  <a:ZipCode>84058</a:ZipCode>
               </a:BillingInformation>
               <a:DateCreated>2015-04-07T14:47:26.26</a:DateCreated>
               <a:Description>qwerty</a:Description>
               <a:ExpirationDate>1215</a:ExpirationDate>
               <a:ObfuscatedAccountNumber>474747******4747</a:ObfuscatedAccountNumber>
               <a:PaymentMethodID> a30dt3a9-d4c0-4f24-a398-95715ea7c494</a:PaymentMethodID>
               <a:PaymentMethodType>Visa</a:PaymentMethodType>
               <a:Priority>2</a:Priority>
               <a:Protected>true</a:Protected>
            </a:PaymentMethodInformation>
         </a:PaymentMethods>
         <a:RequestResult>
            <a:ResultCode>00</a:ResultCode>
            <a:ResultMessage/>
            <a:ResultValue>SUCCESS</a:ResultValue>
         </a:RequestResult>
      </GetAllPayerPaymentMethodsResult>
   </GetAllPayerPaymentMethodsResponse>
</s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**GetAllPayerPaymentMethods(ID, string)**	**PaymentMethodsResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
string1	PayerAccountID

Response Object

Response Object	Elements	Collection/Sub-Object	Elements
PaymentMethodsResult	PaymentMethods	**PaymentMethodInformation[]**	
	RequestResult	**Result**	ResultValue
			ResultCode
			ResultMessage

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4.4 PaymentMethodId Processing Authorization Methods

The following API methods authorize a specified amount against a specified PaymentMethodId
PaymentMethodId processing requires a MerchantProfileId, PayerId, PaymentMethodId and owning BillerId be specified.

4.4.1 Authorize a PaymentMethodId

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.
- To confirm the transaction and capture the authorized funds, this method should be followed by Method 4.5.4. 'Capture an Authorized Credit Card Payment'.
- 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: ▪ true ▪ false 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: ▪ Checking ▪ Savings ▪ LoanCredit ▪ GeneralLedger
AchOverrides.SecCode	String	3	Required*	Standard Entry Class Code. Valid values are: ▪ PPD ▪ CCD ▪ WEB ▪ TEL *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.

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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 MMYY.
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.
Transaction .Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction.Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction.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.
Transaction.IsDebtRepayment	Boolean	5	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted
Transaction.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
Transaction.PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it

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Transaction.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.Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
Frauddetectorss.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 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)

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Interface: REST

How to call this method

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

- Set IsRecurringPayment to: false

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/AuthorizedTransactions/
```

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"
      }
   },
   "AchOverrides":null,
   "PayerOverrides":
   {
      "IpAddress":"127.0.0.1"
   },
   "MerchantProfileId":123456,
   "PayerAccountId":"5823760912097888",
   "Amount":300,
   "CurrencyCode":"USD",
   "Invoice":"Test Invoice",
   "Comment1":"Authorize Comment 1",
```

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```
   "Comment2":"Authorize Comment 2",
   "IsDebtRepayment":"true"
}
```

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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How to call this method

{SOAP Action}	AuthorizePaymentMethodTransaction

Sample SOAP XML request including all mandatory and optional elements

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:AuthorizePaymentMethodTransaction>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:transaction>
            <typ:Amount>300</typ:Amount>
            <typ:Comment1>Authorize Comment 1</typ:Comment1>
            <typ:Comment2>Authorize Comment 2</typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:Invoice>Test Invoice</typ:Invoice>
            <typ:IsDebtRepayment>true</typ:IsDebtRepayment>
            <typ:MerchantProfileId>123456</typ:MerchantProfileId>
            <typ:PayerAccountId>5823760912097888</typ:PayerAccountId>
         </con:transaction>
         <con:paymentMethodID>de1ae2bd-c194-437c-ba9a-cb0730bd92d1</con:paymentMethodID>
         <con:optionalPaymentInfoOverrides>
            <prop:Ach>
               <prop:BankAccountType/>
               <prop:SecCode/>
            </prop:Ach>
            <prop:CreditCard>
               <prop:Billing>
                  <typ:Address1>3400 N Ashton Blvd</typ:Address1>
                  <typ:Address2>Suite 200</typ:Address2>
                  <typ:Address3/>
                  <typ:City>Lehi</typ:City>
                  <typ:Country>USA</typ:Country>
                  <typ:Email>test@user.com</typ:Email>
                  <typ:State>UT</typ:State>
                  <typ:TelephoneNumber>8012223333</typ:TelephoneNumber>
                  <typ:ZipCode>84043</typ:ZipCode>
               </prop:Billing>
               <prop:CVV>999</prop:CVV>
               <prop:ExpirationDate>1014</prop:ExpirationDate>
               <prop:FullName>999</prop:FullName>
            </prop:CreditCard>
```

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```
            <prop:Payer>
               <prop:IpAddress>127.0.0.1</prop:IpAddress>
            </prop:Payer>
         </con:optionalPaymentInfoOverrides>
      </con:AuthorizePaymentMethodTransaction>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <AuthorizePaymentMethodTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <AuthorizePaymentMethodTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:Transaction>
               <a:AVSCode>T</a:AVSCode>
               <a:AuthorizationCode>A11111</a:AuthorizationCode>
               <a:CurrencyConversionRate>1</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>300</a:CurrencyConvertedAmount>
               <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
               <a:GrossAmt>300</a:GrossAmt>
               <a:GrossAmtLessNetAmt>0</GrossAmtLessNetAmt>
               <a:NetAmt>0</a:NetAmt>
               <a:PerTransFee>0</PerTransFee>
               <a:Rate>0</a:Rate><a:ResultCode>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
                  <a:ResultValue>SUCCESS</a:ResultValue>
               </a:ResultCode>
               <a:TransactionHistoryId>7897264</a:TransactionHistoryId>
               <a:TransactionId>519</a:TransactionId>
               <a:TransactionResult>Success</a:TransactionResult>
            </a:Transaction>
         </AuthorizePaymentMethodTransactionResult>
      </AuthorizePaymentMethodTransactionResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	AuthorizePaymentMethodTransaction(ID,Transaction,string,PaymentInfoOverrides)	TransactionResult

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
Transaction	Amount
	Comment1
	Comment2
	CurrencyCode
	Invoice
	MerchantProfileId
	PayerAccountID

Request Object:	Elements
string	PaymentMethodID

Request Object:	Sub-Object	Elements:	Sub-Object	Elements:
PaymentInfoOverrides	**ACH**	BankAccountType		
		SecCode		
	CreditCard	CVV		
		ExpirationDate		
		FullName		
			Billing	Address1
				Address2
				Address3
				City
				Country
				Email
				State
				TelephoneNumber
				ZipCode
	Payer	IpAddress		

Response Object

Response Object:	Elements	Sub-Object	Elements	Sub-Object	Elements

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TransactionResult	RequestResult	**Result**	ResultValue		
			ResultCode		
			ResultMessage		
		Transaction	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConvertedAmount		
			CurrencyConvertedCurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		
			TransactionResult		
				ResultCode	ResultValue
					ResultCode
					ResultMessage

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4.4.2 Authorize a PaymentMethodId (Recurring)

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: ▪ true ▪ false 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: ▪ Checking ▪ Savings ▪ LoanCredit ▪ GeneralLedger
AchOverrides.SecCode	String	3	Required*	Standard Entry Class Code. Valid values are: ▪ PPD ▪ CCD ▪ WEB ▪ TEL *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

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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 MMYY.
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.
Transaction .Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction .Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction .Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction .CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction .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.
Transaction .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
Transaction .PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
Transaction.IsDebtRepayment	Boolean	5	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted
Transaction .Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
Frauddetectorss.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

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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)

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Interface: REST

How to call this method

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

- Set IsRecurringPayment to: true

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/AuthorizedTransactions/
```

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"
      }
   },
   "AchOverrides":null,
   "PayerOverrides":
   {
      "IpAddress":"127.0.0.1"
   },
  "ShouldCapture":false,
   "MerchantProfileId":123456,
   "PayerAccountId":"5823760912097888",
   "Amount":300,
   "CurrencyCode":"USD",
   "Invoice":"Test Invoice",
   "Comment1":"Authorize Comment 1",
```

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```
   "Comment2":"Authorize Comment 2",
   "IsDebtRepayment":"true"

}
```

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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How to call this method

{SOAP Action}	AuthorizePaymentMethodTransactionRecurring

Sample SOAP XML request including all mandatory and optional elements

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:AuthorizePaymentMethodTransactionRecurring >
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:transaction>
            <typ:Amount>300</typ:Amount>
            <typ:Comment1>Authorize Comment 1</typ:Comment1>
            <typ:Comment2>Authorize Comment 2</typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:Invoice>Test Invoice</typ:Invoice>
            <typ:IsDebtRepayment>true</typ:IsDebtRepayment>
            <typ:MerchantProfileId>1524035</typ:MerchantProfileId>
            <typ:PayerAccountId>5823760912097888</typ:PayerAccountId>
         </con:transaction>
         <con:paymentMethodID>de1ae2bd-c194-437c-ba9a-cb0730bd92d1</con:paymentMethodID>
         <con:optionalPaymentInfoOverrides>
            <prop:Ach>
               <prop:BankAccountType/>
               <prop:SecCode/>
            </prop:Ach>
            <prop:CreditCard>
               <prop:Billing>
                  <typ:Address1>3400 N Ashton Blvd</typ:Address1>
                  <typ:Address2>Suite 200</typ:Address2>
                  <typ:Address3/>
                  <typ:City>Lehi</typ:City>
                  <typ:Country>USA</typ:Country>
                  <typ:Email>test@user.com</typ:Email>
                  <typ:State>UT</typ:State>
                  <typ:TelephoneNumber>8012223333</typ:TelephoneNumber>
                  <typ:ZipCode>84043</typ:ZipCode>
               </prop:Billing>
               <prop:CVV>999</prop:CVV>
               <prop:ExpirationDate>1016</prop:ExpirationDate>
               <prop:FullName>999</prop:FullName>
            </prop:CreditCard>
```

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```
            <prop:Payer>
               <prop:IpAddress>127.0.0.1</prop:IpAddress>
            </prop:Payer>
         </con:optionalPaymentInfoOverrides>
      </con:AuthorizePaymentMethodTransactionRecurring >
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <AuthorizePaymentMethodTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <AuthorizePaymentMethodTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:Transaction>
               <a:AVSCode>T</a:AVSCode>
               <a:AuthorizationCode>A11111</a:AuthorizationCode>
               <a:CurrencyConversionRate>1</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>300</a:CurrencyConvertedAmount>
               <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
               <a:ResultCode>
                  <a:ResultCode>00</a:ResultCode>
                  <a:ResultMessage/>
                  <a:ResultValue>SUCCESS</a:ResultValue>
               </a:ResultCode>
               <a:TransactionHistoryId>8392109</a:TransactionHistoryId>
               <a:TransactionId>386</a:TransactionId>
               <a:TransactionResult>Success</a:TransactionResult>
               <a:CVVResponseCode>NotPresent</a:CVVResponseCode>
               <a:GrossAmt>300</a:GrossAmt>
               <a:NetAmt>0</a:NetAmt>
               <a:PerTransFee>0</a:PerTransFee>
               <a:Rate>0.00</a:Rate>
               <a:GrossAmtLessNetAmt>300</a:GrossAmtLessNetAmt>
            </a:Transaction>
         </AuthorizePaymentMethodTransactionResult>
      </AuthorizePaymentMethodTransactionResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	AuthorizePaymentMethodTransactionRecurring(ID,Transaction,string,PaymentInfoOverrides)	TransactionResult

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object	Elements
Transaction	Amount
	Comment1
	Comment2
	CurrencyCode
	Invoice
	MerchantProfileId
	PayerAccountID

Request Object	Elements
string	PaymentMethodID

Request Object	Elements	Sub-Object	Elements:	Sub-Object	Elements:
PaymentInfoOverrides	ACH	**ACHOverrides**	BankAccountType		
			SecCode		
	CreditCard	**CreditCardOverrides**	CVV		
			ExpirationDate		
			FullName		
			Billing	**Billing**	Address1
					Address2
					Address3
					City
					Country
	Payer	**PayerOverrides**	IpAddress		Email
					State
					TelephoneNumber
					ZipCode

Response Object

Response Object	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResult	RequestResult	**Result**	ResultValue		

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			ResultCode		
			ResultMessage		
	Transaction	**TransactionInformation**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConvertedAmount		
			CurrencyConvertedCurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		
			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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4.4.3 Authorize a Payment Method with Encrypted Block Data

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

- Set 'ShouldCapture' to false for an Auth-Only transaction.
- 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: ▪ true ▪ 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: ▪ SaveNew -default if not specified ▪ Error -return error if duplicate found ▪ ReturnDup -causes payment method id to be returned when duplicate found
Priority	Integer		Optional	Do not use

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EncryptedTrackData	Object	-	Required	
EncryptedTrackData .DeviceType	String		Required	Valid Values are: ▪ MagTekM20 ▪ MagTekFlash ▪ IdTechUniMag ▪ Manual ▪ MagTekADynamo ▪ MagTekDynamag ▪ RoamData 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.
Transaction.Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction.Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction.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.
Transaction.IsDebtRepayment	Boolean	5	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted
Transaction.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
Transaction.PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
Transaction.Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FraudDetectosrObject
Frauddetectorss.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;

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		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)

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/Payers/{payerId}/PaymentMethods/AuthorizedAndCapturedTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/7184083347625218/PaymentMethods/AuthorizedAndCapturedTransactions/
```

Sample JSON request data:


```
{
   "EncryptedTrackData":
   {
       "EncryptedTrackData":"xfXe+Qv92/8IugmY3bBZlT988NxLw4e28Trvr/O0d9yRBOuy5cHT4ORij5kte5G01HKCj8Yzxxii/HhFxdfugwTvXKkgjCiysmpdVnqb
       32YD3NHWCjnx5rSU3M+o5NojdA0h11nPCjyOYdVHIPHf8oxd/ch4Rss8",
       "EncryptedTrack2Data":"Uvgy3fK68GahZsC0QEyPFGIXkQVKvI0PnFzQeIVwAF3PsbBgS6GDd61R8dfxAGTwEFUBs0mniHHgK1ht4CHUtHxIuy0+t/TW3FJHpVx
       PhWD8Eu7joweYOLyM+i9NV1WVP/Ghg5PQjrr3a5IC+1k31NbtrK+dOn0a",
       "DeviceType":  "RoamData",
       "KeySerialNumber":"kBAkCwBgHQAAXA=="
   },
       "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"
}
```


Sample JSON response data:


```
{
   "AuthorizeResult":
   {
      "Transaction":
      {
         "AVSCode": "NotPresent",
         "AuthorizationCode": "",
         "CurrencyConversionRate": 1,
         "CurrencyConvertedAmount": 300,
         "CurrencyConvertedCurrencyCode": "USD",
```


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```
         "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",
}
```


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How to call this method

{SOAP Action}	AuthorizeAndProcessEncryptedTrackData

Sample SOAP XML request including all mandatory and optional elements

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:prop1="http://schemas.datacontract.org/2004/07/Propay.Contracts.Common.Structures" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:AuthorizeAndProcessEncryptedTrackData>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <prop:CreatePaymentMethodDuplicateAction>ReturnDup</prop:CreatePaymentMethodDuplicateAction>
            <prop:EncryptedTracks>
       <prop1:DeviceType>RoamData</prop1:DeviceType>
       <prop1:EncryptedTrack2Data>Uvgy3fK68GahZsC0QEyPFGIXkQVKvI0PnFzQeIVwAF3PsbBgS6GDd61R8dfxAGTwEFUBs0mniHHgK1ht4CHUtHxIuy0+t/TW3FJHpVxP
       hWD8Eu7joweYOLyM+i9NV1WVP/Ghg5PQjrr3a5IC+1k31NbtrK+dOn0a</prop1:EncryptedTrack2Data>
       <prop1:EncryptedTrackData>xfXe+Qv92/8IugmY3bBZlT988NxLw4e28Trvr/O0d9yRBOuy5cHT4ORij5kte5G01HKCj8Yzxxii/HhFxdfugwTvXKkgjCiysmpdVnqb3
       2YD3NHWCjnx5rSU3M+o5NojdA0h11nPCjyOYdVHIPHf8oxd/ch4Rss8</prop1:EncryptedTrackData>
                 <prop1:KeySerialNumber>kBAkCwBgHQAAXA==</prop1:KeySerialNumber>
            </prop:EncryptedTracks>
            <prop:ShouldCapture>false</prop:ShouldCapture>
            <prop:ShouldCreatePaymentMethod>true</prop:ShouldCreatePaymentMethod>
            <prop:StorageInformation>
               <prop:AccountName>John Doe</prop:AccountName>
               <prop:BillingInfo>
                  <typ:Address1></typ:Address1>
                  <typ:Address2></typ:Address2>
                  <typ:Address3></typ:Address3>
                  <typ:City></typ:City>
                  <typ:Country></typ:Country>
                  <typ:Email></typ:Email>
                  <typ:State></typ:State>
                  <typ:TelephoneNumber></typ:TelephoneNumber>
                  <typ:ZipCode></typ:ZipCode>
               </prop:BillingInfo>
               <prop:Description>Personal Card</prop:Description>
               <prop:Priority>0</prop:Priority>
            </prop:StorageInformation>
            <prop:Transaction>
               <typ:Amount>300</typ:Amount>
               <typ:Comment1>Encrypted Auth Comment 1</typ:Comment1>
```

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```
            <typ:Comment2>Encrypted Auth Comment 2</typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:MerchantProfileId>1234</typ:MerchantProfileId>
            <typ:PayerAccountId>7184083347625218</typ:PayerAccountId>
         </prop:Transaction>
      </con:request>
   </con:AuthorizeAndProcessEncryptedTrackData>
</soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
    <AuthorizeAndProcessEncryptedTrackDataResponse xmlns="http://propay.com/SPS/contracts">
         <AuthorizeAndProcessEncryptedTrackDataResult xmlns:a="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:AuthorizeResult xmlns:b="http://propay.com/SPS/types">
               <b:RequestResult>
                  <b:ResultCode>201</b:ResultCode>
                  <b:ResultMessage>InvalidExpDate</b:ResultMessage>
                  <b:ResultValue>FAILURE</b:ResultValue>
               </b:RequestResult>
               <b:Transaction>
                  <b:AVSCode>NotPresent</b:AVSCode>
                  <b:AuthorizationCode/>
                  <b:CurrencyConversionRate>1</b:CurrencyConversionRate>
                  <b:CurrencyConvertedAmount>300</b:CurrencyConvertedAmount>
                  <b:CurrencyConvertedCurrencyCode>USD</b:CurrencyConvertedCurrencyCode>
                  <b:ResultCode>
                     <b:ResultCode>201</b:ResultCode>
                     <b:ResultMessage>InvalidExpDate</b:ResultMessage>
                     <b:ResultValue>FAILURE</b:ResultValue>
                  </b:ResultCode>
                  <b:TransactionHistoryId>8392227</b:TransactionHistoryId>
                  <b:TransactionId>0</b:TransactionId>
                  <b:TransactionResult>Declined</b:TransactionResult>
                  <b:CVVResponseCode>NotPresent</b:CVVResponseCode>
                  <b:GrossAmt i:nil="true"/>
                  <b:NetAmt i:nil="true"/>
                  <b:PerTransFee i:nil="true"/>
                  <b:Rate i:nil="true"/>
                  <b:GrossAmtLessNetAmt i:nil="true"/>
               </b:Transaction>
            </a:AuthorizeResult>
            <a:CaptureResult i:nil="true" xmlns:b="http://propay.com/SPS/types"/>
            <a:PaymentMethodId>4945f470-1379-4cab-8e2a-ebf3fc424f75</a:PaymentMethodId>
            <a:Result i:nil="true" xmlns:b="http://propay.com/SPS/types"/>
         </AuthorizeAndProcessEncryptedTrackDataResult>
```

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```
      </AuthorizeAndProcessEncryptedTrackDataResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**AuthorizeAndProcessEncryptedTrackData(ID,AuthAndProcessEncryptedTrackDataRequest)**	**AuthAndProcessEncryptedTrackDataResponse**

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**AuthorizeAndProcessEncryptedTrackData(ID,AuthAndProcessEncryptedTrackDataRequest)**	**AuthAndProcessEncryptedTrackDataResponse**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements	Sub-Object	Elements	Sub-Object	Elements
AuthAndProcessEncrytedrackDataRequest	CreatePaymentMethodDuplicateAction				
	ShouldCapture				
	ShouldCreatePaymentMethod				
	EncryptedTracks	EncryptedTracks	EncryptedTrackData		
			EncryptedTrack2Data		
			KeySerialNumber		
			DeviceType	(Enumeration)	
	StorageInformation	**PaymentMethodStorage**	AccountName		
			Description		
			Priority		
			BillingInfo	**Billing**	Address1
					Address2
					Address3
					City
					Country
					Email
					State
					TelephoneNumber
					ZipCode
	Transaction	**Transaction**	Amount		
			Comment1		
			Comment2		
			CurrencyCode		
			Invoice		
			MerchantProfileId		
			PayerAccountID		

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Response Object

Response Object	Elements	Sub-Object	Elements	Sub-Object	Elements	Sub-Object	Elements
AuthAndProcessEncryptedTrackDataResponse	PaymentMethodID						
	Result	**Result**	ResultValue				
			ResultCode				
			ResultMessage				
***This object will Return Null for Capture**	AuthorizeResult	**TransactionResult**	RequestResult	**Result**	ResultValue		
					ResultCode		
					ResultMessage		
			Transaction	**TransactionInformation**	AuthorizationCode		
					AVSCode		
					CurrencyConversionRate		
					CurrencyConverted Amount		
					CurrencyConverted CurrencyCode		
					CVVResponseCode		
					GrossAmt		
					GrossAmtLessNetAmt		
					NetAmt		
					PerTransFee		
					Rate		
					TransactionHistoryId		
					TransactionId		
					TransactionResult		
					ResultCode	**Result**	ResultValue
							ResultCode
							ResultMessage
***This Object will Return Null for Authorize**	CaptureResult	**TransactionResult**	RequestResult	**Result**	ResultValue		
					ResultCode		
					ResultMessage		
			Transaction	**TransactionInformation**	AuthorizationCode		
					AVSCode		
					CurrencyConversionRate		
					CurrencyConverted Amount		
					CurrencyConverted CurrencyCode		
					CVVResponseCode		
					GrossAmt		
					GrossAmtLessNetAmt		
					NetAmt		

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					PerTransFee		
					Rate		
					TransactionHistoryId		
					TransactionId		
					TransactionResult		
					ResultCode	**Result**	ResultValue
							ResultCode
							ResultMessage

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4.5 PaymentMethodId Processing Capture Methods

The following API methods authorize and then capture a specified amount against a specified PaymentMethodId. PaymentMethodId processing requires a MerchantProfileId, PayerId, PaymentMethodId and owning BillerId be specified.

4.5.1 Process a PaymentMethodId

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.

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: ▪ true ▪ false 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: ▪ Checking ▪ Savings ▪ LoanCredit ▪ GeneralLedger ▪ SEPA (Only for use when connecting to PayVision Gateway)
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	3	Optional*	*If SEPA then value is required.
AchOverrides.SecCode	String	3	Required*	Standard Entry Class Code. Valid values are: ▪ PPD ▪ CCD ▪ WEB ▪ TEL *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.

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				*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 MMYY. *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.
Transaction .Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction.Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction.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.
Transaction.IsDebtRepayment	Boolean	5	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways

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				Defaults to False if not submitted
Transaction.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
Transaction.PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
Transaction.Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FraudDetectosrObject
Frauddetectorss.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 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. 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 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.

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

Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/ProcessedTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

- Set IsRecurringPayment to: false

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/ProcessedTransactions/
```

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",
```

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```
        "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",
        "Comment2": "Credit Comment 2",
        "IsDebtRepayment": "true"
    }
}
```

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",
```

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

Interface: SOAP

How to call this method

{SOAP Action}	ProcessPaymentMethodTransaction

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.FraudDetection"
xmlns:prop1="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External">
   <soapenv:Header/>
   <soapenv:Body>
      <con:ProcessPaymentMethodTransaction>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:transaction>
            <typ:Amount>300</typ:Amount>
            <typ:Comment1>Process Comment 1</typ:Comment1>
            <typ:Comment2>Process Comment 2</typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:Invoice>Invoice1</typ:Invoice>
            <typ:IsDebtRepayment>false</typ:IsDebtRepayment>

            <typ:MerchantProfileId>1234</typ:MerchantProfileId>
            <typ:PayerAccountId>5823760912097888</typ:PayerAccountId>
         </con:transaction>
         <con:paymentMethodID>de1ae2bd-c194-437c-ba9a-cb0730bd92d1</con:paymentMethodID>
         <con:optionalPaymentInfoOverrides>
            <prop1:Ach>
               <prop1:BankAccountType></prop1:BankAccountType>
               <prop1:SecCode></prop1:SecCode>
            </prop1:Ach>
            <prop1:CreditCard>
               <prop1:Billing>
                  <typ:Address1>3400 N Ashton Blvd</typ:Address1>
                  <typ:Address2>Suite 200</typ:Address2>
                  <typ:Address3></typ:Address3>
                  <typ:City>Lehi</typ:City>
                  <typ:Country>USA</typ:Country>
```

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```
                  <typ:State>UT</typ:State>
                  <typ:TelephoneNumber>8665730951</typ:TelephoneNumber>
                  <typ:ZipCode>84043</typ:ZipCode>
               </prop1:Billing>
               <prop1:CVV>999</prop1:CVV>

               <prop1:ExpirationDate>0122</prop1:ExpirationDate>
               <prop1:FullName>John Doe</prop1:FullName>
            </prop1:CreditCard>
            <prop1:Payer>
               <prop1:IpAddress>0.0.0.0</prop1:IpAddress>
            </prop1:Payer>
         </con:optionalPaymentInfoOverrides>
      </con:ProcessPaymentMethodTransaction>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <ProcessPaymentMethodTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <ProcessPaymentMethodTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:Transaction>
               <a:AVSCode>T</a:AVSCode>
               <a:AuthorizationCode>A11111</a:AuthorizationCode>
               <a:CurrencyConversionRate>1</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>300</a:CurrencyConvertedAmount>
               <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
               <a:ResultCode>
                  <a:ResultCode>00</a:ResultCode>
                  <a:ResultMessage/>
                  <a:ResultValue>SUCCESS</a:ResultValue>
               </a:ResultCode>
               <a:TransactionHistoryId>8392130</a:TransactionHistoryId>
               <a:TransactionId>387</a:TransactionId>
               <a:TransactionResult>Success</a:TransactionResult>
               <a:CVVResponseCode>M</a:CVVResponseCode>
               <a:GrossAmt>300</a:GrossAmt>
               <a:NetAmt>267</a:NetAmt>
               <a:PerTransFee>25</a:PerTransFee>
               <a:Rate>2.69</a:Rate>
```

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```
                <a:GrossAmtLessNetAmt>33</a:GrossAmtLessNetAmt>
            </a:Transaction>
         </ProcessPaymentMethodTransactionResult>
      </ProcessPaymentMethodTransactionResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**ProcessPaymentMethodTransaction(ID,Transaction,string,PaymentInfoOverrides)**	**TransactionResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
Transaction	Amount
	Comment1
	Comment2
	CurrencyCode
	Invoice
	MerchantProfileId
	PayerAccountID

Request Object:	Elements
string	**PaymentMethodID**

Request Object:	Elements	Sub-Object	Elements:	Sub-Object	Elements
PaymentInfoOverrides	ACH	**ACHOverrides**	BankAccountType		
			MandateDate		
			MandateDateSigned		
			MandateId		
			SecCode		
	CreditCard	**CreditCardOverrides**	CVV		
			ExpirationDate		
			FullName		
			Billing	**Billing**	Address1
					Address2
					Address3
					City
					Country
	Payer	**PayerOverrides**	IpAddress		Email
					State
					TelephoneNumber
					ZipCode

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Request Objects

Response Object:	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResult	RequestResult	**Result**	ResultValue		
			ResultCode		
			ResultMessage		
	Transaction	**TransactionInformation**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConvertedAmount		
			CurrencyConvertedCurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		
			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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4.5.2 Process a PaymentMethodId (Recurring)

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.

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: ▪ true ▪ false 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: ▪ Checking ▪ Savings ▪ LoanCredit ▪ GeneralLedger
AchOverrides.SecCode	String	3	Required*	Standard Entry Class Code. Valid values are: ▪ PPD ▪ CCD ▪ WEB ▪ TEL *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.

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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 MMYY. *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.
Transaction .Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction.Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction.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.
Transaction.IsDebtRepayment	Boolean	5	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted
Transaction.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
Transaction.PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
Transaction.Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
Frauddetectorss.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.

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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)

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/ProcessedTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

*Set IsRecurringPayment to: true

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/ProcessedTransactions/
```

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"
      }
   },
   "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",
```

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```
   "IsDebtRepayment":"true"

}
```

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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How to call this method

{SOAP Action}	ProcessPaymentMethodTransactionRecurring

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:ProcessPaymentMethodTransactionRecurring>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:transaction>
            <typ:Amount>300</typ:Amount>
            <typ:Comment1>Process Comment 1</typ:Comment1>
            <typ:Comment2> Process Comment 2</typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:Invoice>Test Invoice</typ:Invoice>
            <typ:IsDebtRepayment>true</typ:IsDebtRepayment>
            <typ:MerchantProfileId>1234</typ:MerchantProfileId>
            <typ:PayerAccountId>5823760912097888</typ:PayerAccountId>
         </con:transaction>
         <con:paymentMethodID>de1ae2bd-c194-437c-ba9a-cb0730bd92d1</con:paymentMethodID>
         <con:optionalPaymentInfoOverrides>
            <prop:Ach>
               <prop:BankAccountType/>
               <prop:SecCode/>
            </prop:Ach>
            <prop:CreditCard>
               <prop:Billing>
                  <typ:Address1>3400 N Ashton Blvd</typ:Address1>
                  <typ:Address2>Suite 200</typ:Address2>
                  <typ:Address3/>
                  <typ:City>Lehi</typ:City>
                  <typ:Country>USA</typ:Country>
                  <typ:Email>test@user.com</typ:Email>
                  <typ:State>UT</typ:State>
                  <typ:TelephoneNumber>8012223333</typ:TelephoneNumber>
                  <typ:ZipCode>84043</typ:ZipCode>
               </prop:Billing>
               <prop:CVV>999</prop:CVV>
               <prop:ExpirationDate>1016</prop:ExpirationDate>
               <prop:FullName>999</prop:FullName>
            </prop:CreditCard>
```

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```
            <prop:Payer>
               <prop:IpAddress>127.0.0.1</prop:IpAddress>
            </prop:Payer>
         </con:optionalPaymentInfoOverrides>
      </con:ProcessPaymentMethodTransactionRecurring>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <ProcessPaymentMethodTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <ProcessPaymentMethodTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:Transaction>
               <a:AVSCode>T</a:AVSCode>
               <a:AuthorizationCode>A11111</a:AuthorizationCode>
               <a:CurrencyConversionRate>1</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>300</a:CurrencyConvertedAmount>
               <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
               <a:ResultCode>
                  <a:ResultCode>00</a:ResultCode>
                  <a:ResultMessage/>
                  <a:ResultValue>SUCCESS</a:ResultValue>
               </a:ResultCode>
               <a:TransactionHistoryId>8392130</a:TransactionHistoryId>
               <a:TransactionId>387</a:TransactionId>
               <a:TransactionResult>Success</a:TransactionResult>
               <a:CVVResponseCode>M</a:CVVResponseCode>
               <a:GrossAmt>300</a:GrossAmt>
               <a:NetAmt>267</a:NetAmt>
               <a:PerTransFee>25</a:PerTransFee>
               <a:Rate>2.69</a:Rate>
               <a:GrossAmtLessNetAmt>33</a:GrossAmtLessNetAmt>
            </a:Transaction>
         </ProcessPaymentMethodTransactionResult>
      </ProcessPaymentMethodTransactionResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**ProcessPaymentMethodTransactionRecurring(ID,Transaction,string,PaymentInfoOverrides)**	**TransactionResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object	Elements
Transaction	Amount
	Comment1
	Comment2
	CurrencyCode
	Invoice
	MerchantProfileId
	PayerAccountID

Request Object	Elements
string	PaymentMethodID

Request Object	Elements	Sub-Object	Elements:	Sub-Object	Elements:
PaymentInfoOverrides	ACH	**ACHOverrides**	BankAccountType		
			SecCode		
	CreditCard	**CreditCardOverrides**	CVV		
			ExpirationDate		
			FullName		
			Billing	**Billing**	Address1
					Address2
					Address3
					City
					Country
	Payer	**PayerOverrides**	IpAddress		Email
					State
					TelephoneNumber
					ZipCode

Response Object

Response Object	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResult	RequestResult	**Result**	ResultValue		

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			ResultCode		
			ResultMessage		
	Transaction	**TransactionInformation**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConvertedAmount		
			CurrencyConvertedCurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		
			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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4.5.3 Process a Payment Method with Encrypted Block 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: ▪ true ▪ false 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: ▪ SaveNew -default if not specified ▪ Error -return error if duplicate found ▪ ReturnDup -causes payment method id to be returned when duplicate found

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Priority	Integer		Optional	Do not use
EncryptedTrackData	Object	-	Required	
EncryptedTrackData .DeviceType	String		Required	Valid Values are: ▪ MagTekM20 ▪ MagTekFlash ▪ IdTechUniMag ▪ Manual ▪ MagTekADynamo ▪ MagTekDynamag ▪ RoamData 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.
Transaction .Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction .Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction .Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction .CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction .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.
Transaction .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
Transaction .PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
Transaction.IsDebtRepayment	Boolean	-	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted
Transaction .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;

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		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.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)

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Interface: REST

See ProtectPay API Method 4.4.3 'Authorize a Payment with Encrypted Track Data'.
Set 'ShouldCapture' to 'true'.

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/7184083347625218/PaymentMethods/AuthorizedAndCapturedTransactions/
```

Sample JSON request data:

```
{
   "EncryptedTrackData":
   {
       "EncryptedTrackData":"xfXe+Qv92/8IugmY3bBZlT988NxLw4e28Trvr/O0d9yRBOuy5cHT4ORij5kte5G01HKCj8Yzxxii/HhFxdfugwTvXKkgjCiysmpdVnqb32YD3
       NHWCjnx5rSU3M+o5NojdA0h11nPCjyOYdVHIPHf8oxd/ch4Rss8",
       "EncryptedTrack2Data":"Uvgy3fK68GahZsC0QEyPFGIXkQVKvI0PnFzQeIVwAF3PsbBgS6GDd61R8dfxAGTwEFUBs0mniHHgK1ht4CHUtHxIuy0+t/TW3FJHpVxPhWD8
       Eu7joweYOLyM+i9NV1WVP/Ghg5PQjrr3a5IC+1k31NbtrK+dOn0a",
       "DeviceType":  "RoamData",
       "KeySerialNumber":"kBAkCwBgHQAAXA=="
   },
       "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"
}
```

Sample JSON response data:

```
{
   "AuthorizeResult":
   {
      "Transaction":
      {
         "AVSCode": "NotPresent",
         "AuthorizationCode": "",
         "CurrencyConversionRate": 1,
         "CurrencyConvertedAmount": 300,
         "CurrencyConvertedCurrencyCode": "USD",
         "ResultCode":
         {
            "ResultValue": "FAILURE",
            "ResultCode": "201",
            "ResultMessage": "InvalidExpDate"
```

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```
         },
         "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
}
```


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Interface: SOAP

See ProtectPay API Method 4.4.3 'Authorize a Payment with Encrypted Track Data'.
Set 'ShouldCapture' to 'true'.

Sample SOAP XML request including all mandatory and optional elements

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:prop1="http://schemas.datacontract.org/2004/07/Propay.Contracts.Common.Structures" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:AuthorizeAndProcessEncryptedTrackData>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <prop:CreatePaymentMethodDuplicateAction>ReturnDup</prop:CreatePaymentMethodDuplicateAction>
            <prop:EncryptedTracks>
       <prop1:DeviceType>RoamData</prop1:DeviceType>
       <prop1:EncryptedTrack2Data>Uvgy3fK68GahZsC0QEyPFGIXkQVKvI0PnFzQeIVwAF3PsbBgS6GDd61R8dfxAGTwEFUBs0mniHHgK1ht4CHUtHxIuy0+t/TW3FJHpVxP
       hWD8Eu7joweYOLyM+i9NV1WVP/Ghg5PQjrr3a5IC+1k31NbtrK+dOn0a</prop1:EncryptedTrack2Data>
       <prop1:EncryptedTrackData>xfXe+Qv92/8IugmY3bBZlT988NxLw4e28Trvr/O0d9yRBOuy5cHT4ORij5kte5G01HKCj8Yzxxii/HhFxdfugwTvXKkgjCiysmpdVnqb3
       2YD3NHWCjnx5rSU3M+o5NojdA0h11nPCjyOYdVHIPHf8oxd/ch4Rss8</prop1:EncryptedTrackData>
                <prop1:KeySerialNumber>kBAkCwBgHQAAXA==</prop1:KeySerialNumber>
            </prop:EncryptedTracks>
            <prop:ShouldCapture>true</prop:ShouldCapture>
            <prop:ShouldCreatePaymentMethod>true</prop:ShouldCreatePaymentMethod>
            <prop:StorageInformation>
               <prop:AccountName>John Doe</prop:AccountName>
               <prop:BillingInfo>
                  <typ:Address1></typ:Address1>
                  <typ:Address2></typ:Address2>
                  <typ:Address3></typ:Address3>
                  <typ:City></typ:City>
                  <typ:Country></typ:Country>
                  <typ:Email></typ:Email>
                  <typ:State></typ:State>
                  <typ:TelephoneNumber></typ:TelephoneNumber>
                  <typ:ZipCode></typ:ZipCode>
               </prop:BillingInfo>
               <prop:Description>Personal Card</prop:Description>
               <prop:Priority>0</prop:Priority>
            </prop:StorageInformation>
            <prop:Transaction>
               <typ:Amount>300</typ:Amount>
               <typ:Comment1>Encrypted Auth Comment 1</typ:Comment1>
               <typ:Comment2>Encrypted Auth Comment 2</typ:Comment2>
```

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```
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:MerchantProfileId>1234</typ:MerchantProfileId>
            <typ:PayerAccountId>7184083347625218</typ:PayerAccountId>
         </prop:Transaction>
      </con:request>
   </con:AuthorizeAndProcessEncryptedTrackData>
</soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
    <AuthorizeAndProcessEncryptedTrackDataResponse xmlns="http://propay.com/SPS/contracts">
         <AuthorizeAndProcessEncryptedTrackDataResult xmlns:a="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:AuthorizeResult xmlns:b="http://propay.com/SPS/types">
               <b:RequestResult>
                  <b:ResultCode>201</b:ResultCode>
                  <b:ResultMessage>InvalidExpDate</b:ResultMessage>
                  <b:ResultValue>FAILURE</b:ResultValue>
               </b:RequestResult>
               <b:Transaction>
                  <b:AVSCode>NotPresent</b:AVSCode>
                  <b:AuthorizationCode/>
                  <b:CurrencyConversionRate>1</b:CurrencyConversionRate>
                  <b:CurrencyConvertedAmount>300</b:CurrencyConvertedAmount>
                  <b:CurrencyConvertedCurrencyCode>USD</b:CurrencyConvertedCurrencyCode>
                  <b:ResultCode>
                     <b:ResultCode>201</b:ResultCode>
                     <b:ResultMessage>InvalidExpDate</b:ResultMessage>
                     <b:ResultValue>FAILURE</b:ResultValue>
                  </b:ResultCode>
                  <b:TransactionHistoryId>8392227</b:TransactionHistoryId>
                  <b:TransactionId>0</b:TransactionId>
                  <b:TransactionResult>Declined</b:TransactionResult>
                  <b:CVVResponseCode>NotPresent</b:CVVResponseCode>
                  <b:GrossAmt i:nil="true"/>
                  <b:NetAmt i:nil="true"/>
                  <b:PerTransFee i:nil="true"/>
                  <b:Rate i:nil="true"/>
                  <b:GrossAmtLessNetAmt i:nil="true"/>
               </b:Transaction>
            </a:AuthorizeResult>
            <a:CaptureResult i:nil="true" xmlns:b="http://propay.com/SPS/types"/>
            <a:PaymentMethodId>4945f470-1379-4cab-8e2a-ebf3fc424f75</a:PaymentMethodId>
            <a:Result i:nil="true" xmlns:b="http://propay.com/SPS/types"/>
         </AuthorizeAndProcessEncryptedTrackDataResult>
      </AuthorizeAndProcessEncryptedTrackDataResponse>
```

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```
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

See ProtectPay API Method 4.4.3 ‘Authorize a Payment with Encrypted Block Data’
Set ‘ShouldCapture’ to ‘true’

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4.5.4 Capture 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)	Signed Int(64)	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	Int(64)	Signed Int(64)	Required	Used to specify which processor and merchant account to process the transaction against.
TransactionHistoryId	Int(64)	Signed Int(64)	Required	ProtectPay's identifier for the transaction to capture. **This value is returned by AuthorizePaymentMethodTransaction.

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
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

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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 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
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)

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	Not Applicable
Method	Not Applicable
Authorization	Not Applicable

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

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",
```

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```
      "GrossAmt": 300,
      "NetAmt": 255,
      "PerTransFee": 35,
      "Rate": 3.25,
      "GrossAmtLessNetAmt": 45
   },
   "RequestResult":
   {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
   }
}
```


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How to call this method

{SOAP Action}	CaptureTransaction

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
 xmlns:typ="http://propay.com/SPS/types">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CaptureTransaction>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <typ:Amount>100</typ:Amount>
            <typ:Comment1>Comment</typ:Comment1>
            <typ:Comment2>Commenta</typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:MerchantProfileId>123456</typ:MerchantProfileId>
            <typ:OriginalTransactionId>1245</typ:OriginalTransactionId>
            <typ:PaymentMethodId>4945f470-1379-4cab-8e2a-ebf3fc424f75</typ:PaymentMethodId>
            <typ:TransactionHistoryId>1155234</typ:TransactionHistoryId>
         </con:request>
      </con:CaptureTransaction>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CaptureTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <CaptureTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:TransactionDetail>
               <a:AVSCode>NotPresent</a:AVSCode>
               <a:AuthorizationCode i:nil="true"/>
               <a:CVVResponseCode>NotPresent</a:CVVResponseCode>
               <a:CurrencyConversionRate>1</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>2147483646</a:CurrencyConvertedAmount>
               <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
               <a:GrossAmt>2147483646</a:GrossAmt>
               <a:GrossAmtLessNetAmt>75161963</a:GrossAmtLessNetAmt>
```

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```
            <a:NetAmt>2072321683</a:NetAmt>
            <a:PerTransFee>35</a:PerTransFee>
            <a:Rate>3.50</a:Rate>
            <a:ResultCode>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:ResultCode>
            <a:TransactionHistoryId>103271482</a:TransactionHistoryId>
            <a:TransactionId>1</a:TransactionId>
            <a:TransactionResult>Success</a:TransactionResult>
         </a:TransactionDetail>
      </CaptureTransactionResult>
   </CaptureTransactionResponse>
</s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**CaptureTransaction(TransactionRequest)**	**TransactionResponse**

Request Objects

Request Object	Elements	Sub-Object	Elements
TransactionRequest	Amount		
	Comment1		
	Comment2		
	MerchantProfileId		
	TransactionHistoryId		
	Id	ID	AuthenticationToken
			BillerAccountId
	CurrencyCode		

Response Object

Response Object	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResponse	RequestResult	**Result**	ResultValue		
			ResultCode		
			ResultMessage		
	TransactionDetail	**TransactionDetail**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConvertedAmount		
			CurrencyConvertedCurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		
			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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4.6 PaymentMethodId Processing Reversal Methods

The following API methods reverse PaymentMethodId processing transactions.
PaymentMethodId processing requires a MerchantProfileId, PayerId, PaymentMethodId and owning BillerId be specified.

4.6.1 Void a Transaction

This method will void a credit card PaymentMethodId transaction or PaymentMethodId credit card 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 Appendix for possible returned values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See Appendix 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

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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 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
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)

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/VoidedTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

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",
```

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

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Interface: SOAP

How to call this method

{SOAP Action}	VoidPaymentV2

Sample SOAP XML request including all mandatory and optional elements

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:VoidPaymentV2>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <prop:Comment1></prop:Comment1>
            <prop:Comment2></prop:Comment2>
            <prop:MerchantProfileId></prop:MerchantProfileId>
            <prop:OriginalTransactionId></prop:OriginalTransactionId>
            <prop:TransactionHistoryId></prop:TransactionHistoryId>
         </con:request>
      </con:VoidPaymentV2>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample XML response

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <VoidPaymentV2Response xmlns="http://propay.com/SPS/contracts">
         <VoidPaymentV2Result xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:Transaction>
               <a:AVSCode>NotPresent</a:AVSCode>
               <a:AuthorizationCode i:nil="true"/>
               <a:CurrencyConversionRate>1</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>500</a:CurrencyConvertedAmount>
               <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
               <a:ResultCode>
                  <a:ResultCode>00</a:ResultCode>
                  <a:ResultMessage/>
                  <a:ResultValue>SUCCESS</a:ResultValue>
               </a:ResultCode>
```

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```
            <a:TransactionHistoryId>0</a:TransactionHistoryId>
            <a:TransactionId>442</a:TransactionId>
            <a:TransactionResult>Success</a:TransactionResult>
         </a:Transaction>
      </VoidPaymentV2Result>
   </VoidPaymentV2Response>
</s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**VoidPaymentV2(ID,VoidRequest)**	**TransactionResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object	Elements
VoidRequest	Comment1
	Comment2
	MerchantProfileId
	originalTransactionId
	TransactionHistoryId

Response Object

Response Object	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResult	RequestResult	**Result**	ResultValue		
			ResultCode		
			ResultMessage		
	Transaction	**TransactionInformation**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConvertedAmount		
			CurrencyConvertedCurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		
			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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4.6.2 Refund Transaction

This method will refund a credit card or ACH transaction.

- 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 API Appendix 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 Appendix for possible returned values
RequestResult.ResultMessage	String	The ProtectPay API Method Response Message. See Appendix 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.

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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 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.
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).

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Interface: REST

How to call this method:

HTTP Element	Value
Resource URI	/protectpay/RefundTransaction/
Method	PUT
Authorization	See section 3.2.1 REST Interface

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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```
    }
}
```

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Interface: SOAP

How to call this method

{SOAP Action}	**RefundTransaction**

- RefundPaymentV2 is limited to an Int32 for the Amount.
- RefundPaymentV2 does NOT accept CurrencyCode

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types">
   <soapenv:Header/>
   <soapenv:Body>
      <con:RefundTransaction>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <typ:Amount>100</typ:Amount>
            <typ:Comment1>Comment</typ:Comment1>
            <typ:Comment2>Commenta</typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:MerchantProfileId>123456</typ:MerchantProfileId>
            <typ:OriginalTransactionId>11552</typ:OriginalTransactionId>
            <typ:PaymentMethodId>dcd234e6-8e5f-4ea7-b468-13eb82191f52</typ:PaymentMethodId>
            <typ:TransactionHistoryId>12355545</typ:TransactionHistoryId>
         </con:request>
      </con:RefundTransaction>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <RefundTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <RefundTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:TransactionDetail>
               <a:AVSCode>NotPresent</a:AVSCode>
               <a:AuthorizationCode i:nil="true"/>
               <a:CVVResponseCode>NotPresent</a:CVVResponseCode>
               <a:CurrencyConversionRate>0.0000757</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>189250</a:CurrencyConvertedAmount>
```

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```
            <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
            <a:GrossAmt i:nil="true"/>
            <a:GrossAmtLessNetAmt i:nil="true"/>
            <a:NetAmt i:nil="true"/>
            <a:PerTransFee i:nil="true"/>
            <a:Rate i:nil="true"/>
            <a:ResultCode>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:ResultCode>
            <a:TransactionHistoryId>103271488</a:TransactionHistoryId>
            <a:TransactionId>3</a:TransactionId>
            <a:TransactionResult>Success</a:TransactionResult>
         </a:TransactionDetail>
      </RefundTransactionResult>
   </RefundTransactionResponse>
</s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**RefundTransaction(TransactionRequest)**	**TransactionResponse**

Request Objects

Request Object	Elements	Sub-Object	Element
TransactionRequest	Amount		
	Comment1		
	Comment2		
	OriginalTransactionId		
	MerchantProfileId		
	PaymentMethodId		
	TransactionHistoryId		
	Id	ID	AuthenticationToken
			BillerAccountId
	CurrencyCode		

Response Object

Response Object	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResponse	RequestResult	**Result**	ResultValue		
			ResultCode		
			ResultMessage		
	TransactionDetail	**TransactionDetail**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConvertedAmount		
			CurrencyConvertedCurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		
			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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4.6.3 Process a Credit Transaction

This method will process a transaction crediting a Credit Card 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.
- 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.
AchOverrides	Object	-	ACH Only	Used to override the information stored with the ACH PaymentMethodId type
AchOverrides.BankAccountType	String	1	Optional	Valid values are: ▪ Checking ▪ Savings ▪ LoanCredit ▪ GeneralLedger
AchOverrides.SecCode	String	3	Required*	Standard Entry Class Code. Valid values are: ▪ PPD ▪ CCD ▪ WEB ▪ TEL *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.

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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 MMYY.
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.
Transaction .Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction.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
Transaction.PayerAccountId	String	16	Required	This is the ProtectPay ID for the Payer Created and belongs to the BillerID that created it
Transaction.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.Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.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.
Transaction.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 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

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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)

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Interface: REST

How to call this method:

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/CreditTransactions
Method	PUT
Authorization	See section 3.2.1 REST Interface

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/4335340335163087/PaymentMethods/CreditTransactions
```

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",
```

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```
      "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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Interface: SOAP

How to call this method

{SOAP Action}	CreditPayment

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CreditPayment>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:transaction>
            <typ:Amount>300</typ:Amount>
            <typ:Comment1>Process Comment 1</typ:Comment1>
            <typ:Comment2> Process Comment 2</typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:Invoice>Test Invoice</typ:Invoice>
            <typ:MerchantProfileId>1234</typ:MerchantProfileId>
            <typ:PayerAccountId>5823760912097888</typ:PayerAccountId>
         </con:transaction>
         <con:paymentMethodID>de1ae2bd-c194-437c-ba9a-cb0730bd92d1</con:paymentMethodID>
         <con:paymentInfoOverrides>
            <prop:Ach>
               <prop:BankAccountType/>
               <prop:SecCode/>
            </prop:Ach>
            <prop:CreditCard>
               <prop:Billing>
                  <typ:Address1>3400 N Ashton Blvd</typ:Address1>
                  <typ:Address2>Suite 200</typ:Address2>
                  <typ:Address3/>
                  <typ:City>Lehi</typ:City>
                  <typ:Country>USA</typ:Country>
                  <typ:Email>test@user.com</typ:Email>
                  <typ:State>UT</typ:State>
                  <typ:TelephoneNumber>8012223333</typ:TelephoneNumber>
                  <typ:ZipCode>84043</typ:ZipCode>
               </prop:Billing>
               <prop:CVV>999</prop:CVV>
               <prop:ExpirationDate>1016</prop:ExpirationDate>
               <prop:FullName>999</prop:FullName>
            </prop:CreditCard>
            <prop:Payer>
```

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```
            <prop:IpAddress>127.0.0.1</prop:IpAddress>
         </prop:Payer>
      </con:paymentInfoOverrides>
   </con:CreditPayment>
</soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CreditPaymentResponse xmlns="http://propay.com/SPS/contracts">
         <CreditPaymentResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:Transaction>
               <a:AVSCode>NotPresent</a:AVSCode>
               <a:AuthorizationCode i:nil="true"/>
               <a:CurrencyConversionRate>0</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>0</a:CurrencyConvertedAmount>
               <a:CurrencyConvertedCurrencyCode>Unsupported</a:CurrencyConvertedCurrencyCode>
               <a:ResultCode>
                  <a:ResultCode>00</a:ResultCode>
                  <a:ResultMessage/>
                  <a:ResultValue>SUCCESS</a:ResultValue>
               </a:ResultCode>
               <a:TransactionHistoryId>21487150</a:TransactionHistoryId>
               <a:TransactionId>445</a:TransactionId>
               <a:TransactionResult>Success</a:TransactionResult>
            </a:Transaction>
         </CreditPaymentResult>
      </CreditPaymentResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**CreditPayment(ID,Transaction,string,PaymentInfoOverrides)**	**TransactionResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
Transaction	Amount
	Comment1
	Comment2
	CurrencyCode
	Invoice
	MerchantProfileId
	PayerAccountID

Request Object:	Elements
string	PaymentMethodID

Request Object:	Elements	Sub-Object	Elements:	Sub-Object	Elements:
PaymentInfoOverrides	ACH	**ACHOverrides**	BankAccountType		
			SecCode		
	CreditCard	**CreditCardOverrides**	CVV		
			ExpirationDate		
			FullName		
			Billing	**Billing**	Address1
					Address2
					City
					Country
	Payer	**PayerOverrides**	IpAddress		Email
					State
					TelephoneNumber
					ZipCode

Request Objects

Response Object:	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResult	RequestResult	**Result**	ResultValue		
			ResultCode		

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			ResultMessage		
	Transaction	**TransactionInformation**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConvertedAmount		
			CurrencyConvertedCurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		
			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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4.7 Payer Management Interface Methods

The following API methods are used exclusively by the ProtectPay Payer Management Interfaces.

See the following ProtectPay API manual(s) for additional information:

- ProtectPay Payer Management Interface: Seamless Payment Interface (SPI).
- ProtectPay Payer Management Interface: Hosted Payment Page (HPP).
- ProtectPay Payer Management Interface: Full Function Re-direct (FFR).

4.7.1 Create TempToken

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 neither an Id or Name is supplied a temporary payer will be created

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
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

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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
Authorization	See section 3.2.1 REST Interface

Sample REST request URI for a known PayerId:

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/TempTokens/?durationSeconds=600
```

Sample JSON request data (Known PayerId):

```
URI ONLY
```

Sample JSON response data (Known PayerId):

```
{
   "TempToken":"1c29d0ca-7b06-4e80-93f9-117178ecc9e490dff678-d8e7-4825-a606-a7f68a0f1bf7",
   "PayerId":"5823760912097888",
   "RequestResult":
   {
      "ResultValue":"SUCCESS",
      "ResultCode":"00",
      "ResultMessage":""
   },
   "CredentialId":15393390
}
```

Sample REST request URI to also create a PayerId for an unknown PayerId:

```
https://xmltestapi.propay.com/protectpay/TempTokens/?payerName=John%20Smith&duration=600
```

Sample JSON request data (Unknown PayerId):

```
URI ONLY
```

Sample JSON response data (Unknown PayerId):

```
{
   "TempToken":"1c29d0ca-7b06-4e80-93f9-117178ecc9e490dff678-d8e7-4825-a606-a7f68a0f1bf7",
   "PayerId":"1590414159276273",
   "RequestResult":
   {
      "ResultValue":"SUCCESS",
      "ResultCode":"00",
      "ResultMessage":""
   },
```

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```
   "CredentialId":15393390
}
```


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How to call this method

{SOAP Action}	GetTempToken

Sample SOAP XML request including all mandatory and optional elements (Known PayerId):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:GetTempToken>
         <con:tempTokenRequest>
            <typ:Identification>
               <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
               <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
            </typ:Identification>
            <typ:PayerInfo>
               <typ:Id>5823760912097888</typ:Id>
               <typ:Name></typ:Name>
            </typ:PayerInfo>
            <typ:TokenProperties>
               <typ:DurationSeconds>600</typ:DurationSeconds>
            </typ:TokenProperties>
         </con:tempTokenRequest>
      </con:GetTempToken>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response (Known PayerId):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetTempTokenResponse xmlns="http://propay.com/SPS/contracts">
         <GetTempTokenResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:CredentialId>15393390</a:CredentialId>
            <a:PayerId>5823760912097888</a:PayerId>
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:TempToken>1c29d0ca-7b06-4e80-93f9-117178ecc9e490dff678-d8e7-4825-a606-a7f68a0f1bf7</a:TempToken>
         </GetTempTokenResult>
      </GetTempTokenResponse>
   </s:Body>
</s:Envelope>
```

Sample SOAP XML request including all mandatory and optional elements (Unknown PayerId):

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```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types">
   <soapenv:Header/>
   <soapenv:Body>
      <con:GetTempToken>
         <con:tempTokenRequest>
            <typ:Identification>
               <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
               <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
            </typ:Identification>
            <typ:PayerInfo>
               <typ:Id></typ:Id>
               <typ:Name>John Smith</typ:Name>
            </typ:PayerInfo>
            <typ:TokenProperties>
               <typ:DurationSeconds>600</typ:DurationSeconds>
            </typ:TokenProperties>
         </con:tempTokenRequest>
      </con:GetTempToken>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response (Unknown PayerId):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetTempTokenResponse xmlns="http://propay.com/SPS/contracts">
         <GetTempTokenResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:CredentialId>15393390</a:CredentialId>
            <a:PayerId>1590414159276273</a:PayerId>
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:RequestResult>
            <a:TempToken>1c29d0ca-7b06-4e80-93f9-117178ecc9e490dff678-d8e7-4825-a606-a7f68a0f1bf7</a:TempToken>
         </GetTempTokenResult>
      </GetTempTokenResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**GetTempToken(TempTokenRequest)**	***TempTokenResult**

*The TempTokenResult object inherits the TempTokesForPayerEditResult Object

Request Objects

Request Object:	Elements	Sub-Object	Elements
TempTokenRequest	Identification	**ID**	AuthenticationToken
			BillerID
	PayerInfo	**PayerInformation**	Id
			Name
	TokenProperties	**TempTokenProperties**	DurationSeconds

Response Object

Response Object:	Elements	Sub-Object	Elements
***TempTokenResult**	CredentialId		
	PayerId		
	TempToken		
	RequestResult	**Result**	ResultValue
			ResultCode
			ResultMessage

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4.7.2 Create HostedTransactionIdentifier

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: ▪ true ▪ false User can use MasterPass making CreateHostedTransactionIdentifier call with AcceptmasterPass true .This property is ignored if merchant is not subscribed for Masterpass.
AvsRequirementType	Integer	1	Required	Indicates if the 'AVS' section should be required, optional, or hidden. ▪ 1 (REST), Required (SOAP) : Displayed, and user must fill it out ▪ 2 (REST), Optional (SOAP) : Displayed, and user may fill it out ▪ 3 (REST), Hidden (SOAP) : Not displayed to the user).
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. ▪ 1 (REST), Required (SOAP) : Displayed, and user must fill it out ▪ 2 (REST), Optional (SOAP) : Displayed, and user may fill it out ▪ 3 (REST), Hidden (SOAP) : Not displayed to the user).
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. ▪ Custom CSS Files must be hosted on an HTTPS connection ▪ Sending an empty vaule will remove all styles
CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Frauddetectors	Object	-	Optional	Please See ProtectPay Appendix for details concerning the FrauddetectorsObject
Frauddetectorss.FrauddetectorProviderName	String		Required*	If using Frauddetectors Object this Element is required.

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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: ▪ true ▪ false 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 ▪ 0 – Credit Card ▪ 1 – ACH If set to 1 overrides display options and displays Name and ACH field only
PayerId **PayerAccountId *REST Value***	Long	16	Required	The Payer under which the PaymentMethodId should be created under.
ProcessCard	Boolean	-	Required*	Valid values are: ▪ true ▪ false Process (authorize and capture) the card transaction. This property is ignored if the "AuthOnly" property is true.
Protected	Boolean	5	Optional	Valid values are: ▪ true ▪ false 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. ▪ 1 (REST), Required (SOAP) : Displayed, and user must fill it out ▪ 2 (REST), Optional (SOAP) : Displayed, and user may fill it out ▪ 3 (REST), Hidden (SOAP) : Not displayed to the user).
StoreCard	Boolean		Required*	Valid values are: ▪ true ▪ false 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.

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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

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
HostedTransactionIdentifier	String	Unique One Time use only identifier for a Hosted Transaction Page

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/HostedTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

Sample JSON request data:

```
{
   "PayerAccountId":2498355927655035,
   "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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Sample JSON response data:


```
{
   "HostedTransactionIdentifier":"f1549c53-e499-476d-84cc-93f99586505d",
   "Result":
   {
      "ResultValue":"SUCCESS",
      "ResultCode":"00",
      "ResultMessage":""
   }
}
```


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Interface: SOAP

How to call this method

{SOAP Action}	CreateHostedTransaction

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:CreateHostedTransaction>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:hostedTransaction>
            <prop:Address1>123 ABC St</prop:Address1>
            <prop:Address2>Apt A</prop:Address2>
            <prop:Amount>10000</prop:Amount>
            <prop:AuthOnly>false</prop:AuthOnly>
            <prop:AvsRequirementType>Required</prop:AvsRequirementType>
            <prop:BillerAccountId>MyBillerId</prop:BillerAccountId>
            <prop:BillerAuthToken>MyAuthToken</prop:BillerAuthToken>
            <prop:BillerIdentityId></prop:BillerIdentityId>
            <prop:CardHolderNameRequirementType>Required</prop:CardHolderNameRequirementType>
            <prop:City>Faloola</prop:City>
            <prop:Comment1>Test Comment 1</prop:Comment1>
            <prop:Comment2>Test Comment 2</prop:Comment2>
            <prop:Country>USA</prop:Country>
            <prop:CreationDate></prop:CreationDate>
            <prop:CssUrl>https://protectpaytest.propay.com/hpp/css/pmi.css</prop:CssUrl>
            <prop:CurrencyCode>USD</prop:CurrencyCode>
            <prop:Description>My Visa</prop:Description>
            <prop:HostedTransactionIdentifier></prop:HostedTransactionIdentifier>
            <prop:InvoiceNumber>Test Invoice</prop:InvoiceNumber>
            <prop:MerchantProfileId>12345</prop:MerchantProfileId>
            <prop:Name>John Smith</prop:Name>
            <prop:OnlyStoreCardOnSuccessfulProcess>false</prop:OnlyStoreCardOnSuccessfulProcess>
            <prop:PayerId>12345678</prop:PayerId>
            <prop:PaymentTypeId>0</prop:PaymentTypeId>
            <prop:ProcessCard>true</prop:ProcessCard>
            <prop:Protected>false</prop:Protected>
            <prop:ReturnUrl>www.propay.com</prop:ReturnUrl>
            <prop:SecurityCodeRequirementType>Required</prop:SecurityCodeRequirementType>
            <prop:State>UT</prop:State>
            <prop:StoreCard>true</prop:StoreCard>
            <prop:ZipCode>12345</prop:ZipCode>
```

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```
         </con:hostedTransaction>
      </con:CreateHostedTransaction>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <CreateHostedTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <CreateHostedTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:HostedTransactionIdentifier>3bb49a32-b4ce-4ec9-92bd-0774fd5fd1ad</a:HostedTransactionIdentifier>
            <a:Result>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:Result>
         </CreateHostedTransactionResult>
      </CreateHostedTransactionResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**CreateHostedTransaction(ID,HostedTransactionDetail)**	**CreateHostedTransactionResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
HostedTransactionDetail	Address1
	Address2
	Amount
	AuthOnly
	BillerAccountId
	BillerAuthToken
	BillerIdentityId
	City
	Comment1
	Comment2
	Country
	CreationDate
	CssUrl
	Description
	HostedTransactionIdentifier
	InvoiceNumber
	MerchantProfileId
	Name
	OnlyStoreCardOnSuccessfulProcess
	PayerId
	ProcessCard
	State
	StoreCard
	ZipCode
	AvsRequirementType
	CardHolderNameRequirementType
	CurrencyCode
	SecurityCodeRequirementType

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Response Object

Response Object:	Elements	Sub-Object	Elements
CreateHostedTransactionResult	HostedTransactionIdentifier		
	RequestResult	**Result**	ResultValue
			ResultCode
			ResultMessage

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4.7.3 Get Hosted Transaction Results

This method will return the result of a hosted transaction that was created by ProtectPay API method 4.7.2 'CreateHostedTransactionIdentifier'.

The information in the result will depend on the parameters set by 'CreateHostedTransactionIdentifier', including:

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

❖ As a control against spoofing, and for non-repudiation of transactions initiated via the Hosted Payment Page, the hosted page will NOT send a response indicating the success or failure of the transaction request. The Hosted Page will raise a JavaScript event indicating the page was successfully submitted. This method should be called at this time.

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.
HostedTransactionId	String	36	Required	The hosted transaction ID (GUID) that was returned from the call to "CreateHostedTransactionIdentifier"

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
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.

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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; ▪ Visa ▪ MasterCard ▪ AMEX ▪ Discover ▪ DinersClub ▪ JCB ▪ ProPayToProPay ▪ Checking ▪ Savings ▪ Maestro
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

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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 Appendix for possible returned values

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/HostedTransactionResults/{HostedTransactionId}
Method	GET
Authorization	See section 3.2.1 REST Interface

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/HostedTransactionResults/3c2d361a-23a7-4ca1-9c4d-4c18e1af7ad1/
```

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": ""
```


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```
        },
        "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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Interface: SOAP

How to call this method

{SOAP Action}	**GetHostedResult**

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:GetHostedResult>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:hostedTransactionIdentifier>0c4feeef-0863-4f6d-b5f4-df56cd661777</con:hostedTransactionIdentifier>
      </con:GetHostedResult>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope
    xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Body>
        <GetHostedResultResponse
            xmlns="http://propay.com/SPS/contracts">
            <GetHostedResultResult
                xmlns:a="http://propay.com/SPS/types"
                xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
                <a:HostedTransaction
                    xmlns:b="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External">
                    <b:AuthCode>A11111</b:AuthCode>
                    <b:AvsResponse>T</b:AvsResponse>
                    <b:CVVResponseCode>M</b:CVVResponseCode>
                    <b:CreationDate>2016-02-16T16:22:42.0974377</b:CreationDate>
                    <b:CurrencyConversionRate>1.000000000</b:CurrencyConversionRate>
                    <b:CurrencyConvertedAmount>1000</b:CurrencyConvertedAmount>
                    <b:CurrencyConvertedCurrencyCode>USD</b:CurrencyConvertedCurrencyCode>
                    <b:GrossAmt>1000</b:GrossAmt>
                    <b:GrossAmtLessNetAmt>52</b:GrossAmtLessNetAmt>
                    <b:HostedTransactionIdentifier>0c4feeef-0863-4f6d-b5f4-df56cd661777</b:HostedTransactionIdentifier>
                    <b:NetAmt>948</b:NetAmt>
                    <b:PayerId>1045899410011966</b:PayerId>
                    <b:PaymentMethodInfo>
                        <a:AccountName/>
                        <a:BillingInformation>
                            <a:Address1/>
                            <a:Address2/>
```

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```
                        <a:Address3/>
                        <a:City/>
                        <a:Country>USA</a:Country>
                        <a:Email/>
                        <a:State>AK</a:State>
                        <a:TelephoneNumber/>
                        <a:ZipCode/>
                    </a:BillingInformation>
                    <a:DateCreated>2016-02-16T16:22:40.8</a:DateCreated>
                    <a:Description/>
                    <a:ExpirationDate>0117</a:ExpirationDate>
                    <a:ObfuscatedAccountNumber>474747******4747</a:ObfuscatedAccountNumber>
                    <a:PaymentMethodID>64c2bc02-bd6c-4540-9760-bc0c4eb564bc</a:PaymentMethodID>
                    <a:PaymentMethodType>Visa</a:PaymentMethodType>
                    <a:Priority>60</a:Priority>
                    <a:Protected>true</a:Protected>
                </b:PaymentMethodInfo>
                <b:PerTransFee>25</b:PerTransFee>
                <b:Rate>2.69000</b:Rate>
                <b:TransactionHistoryId>8352615</b:TransactionHistoryId>
                <b:TransactionId>371</b:TransactionId>
                <b:TransactionResult>00</b:TransactionResult>
                <b:TransactionResultMessage/>
            </a:HostedTransaction>
            <a:Result>
                <a:ResultCode>00</a:ResultCode>
                <a:ResultMessage/>
                <a:ResultValue>SUCCESS</a:ResultValue>
            </a:Result>
        </GetHostedResultResult>
    </GetHostedResultResponse>
  </s:Body>
</s:Envelope>
```

Sample SOAP XML Response For an Unused HostedTransactionIdentifier (Note Nil returned for a:HostedTransaction):

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetHostedResultResponse xmlns="http://propay.com/SPS/contracts">
           <GetHostedResultResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
       <a:HostedTransaction i:nil="true" xmlns:b="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"/>
           </GetHostedResultResult>
           <a:Result>
                 <a:ResultCode>00</a:ResultCode>
       <a:ResultMessage/>
       <a:ResultValue>SUCCESS</a:ResultValue>
           </a:Result>
        </GetHostedResultResult>
     </GetHostedResultResponse>
```

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```
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**GetHostedResult(ID,string)**	**GetHostedResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
string	HostedTransactionIdentifier

Response Object

Response Object:	Elements	Sub-Object	Elements	Sub-Object	Elements	Sub-Object	Elements
GetHostedResult	Result	**Result**	ResultValue				
			ResultCode				
			ResultMessage				
	HostedTransaction	**HostedTransactionResult**	AuthCode				
			AVSResponse				
			CreationDate				
			CurrencyConversion Rate				
			CurrencyConverted Amount				
			CVVResponseCode				
			GrossAmt				
			GrossAmtLessNetAmt				
			HostedTransaction Identifier				
			NetAmt				
			PayerId				
			PerTransFee				
			Rate				
			TransactionHistoryId				
			TransactionId				
			TransactionResult				
			TransactionResultMessage				
			CurrencyConverted CurrencyCode				
			PaymentMethodInfo	**PaymentMethodInformation**	AccountName		

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					DateCreated		
					Description		
					ExpirationDate		
					ObfuscatedAccountNumber		
					PaymentMethodID		
					PaymentMethodType		
					Priority		
					Protected		
					BillingInformation	**Billing**	Address1
							Address2
							Address3
							City
							Country
							Email
							State
							Telephone Number
							ZipCode

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4.8 Fraud System Methods

The following API methods are unique to processing with external fraud detection systems.

4.8.1 Generate Kount KHash

This method will generate a Kount KHash of a PaymentMethodId

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.
PaymentMethodId	String	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

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
KHash	String	The Kount KHash of the PaymentMethodID

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/KountKhash/{PaymentMethodID}
Method	GET
Authorization	See section 3.2.1 REST Interface

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/KountKhash/0db51ab3-d413-4107-9174-73abed34724e/
```

Sample JSON request data:

```
URI ONLY
```

Sample JSON response data:

```
{
   "KHash": "474747UR3UW1KNP860OD",
   "Result":    {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
   }
}
```

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Interface: SOAP

How to call this method

{SOAP Action}	GetKountKHash

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:GetKountKHash>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <prop:PaymentMethodId>0db51ab3-d413-4107-9174-73abed34724e</prop:PaymentMethodId>
         </con:request>
      </con:GetKountKHash>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetKountKHashResponse xmlns="http://propay.com/SPS/contracts">
         <GetKountKHashResult xmlns:a="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:KHash>474747UR3UW1KNP860OD</a:KHash>
            <a:Result xmlns:b="http://propay.com/SPS/types">
               <b:ResultCode>00</b:ResultCode>
               <b:ResultMessage/>
               <b:ResultValue>SUCCESS</b:ResultValue>
            </a:Result>
         </GetKountKHashResult>
      </GetKountKHashResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**GetHostedResult(ID,GetKountKHashRequest)**	**GetKountKHashResponse**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements
GetKountKHashRequest	PaymentMethodId

Response Object

Response Object	Elements	Sub-Object	Elements
GetKountKHashResponse	KHash		
	Result	**Result**	ResultValue
			ResultCode
			ResultMessage

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4.9 ProPay Processor Specific Methods for ProtectPay

The following API methods are unique to processing with ProPay.
In order for these methods to be used the ProPay accounts these methods are called on must have the appropriate permissions set.

4.9.1 ProPay SplitPay Transaction

This method will attempt to perform a ProPay SplitPay transaction through the ProtectPay API. Credit card and ACH payment methods can be used in SplitPay transactions.

- There are two portions to this transaction:
  1. The **InitialTransaction –** the originating transaction.
  2. The **SecondaryTransaction -** The split portion of the originating transaction.

- This method takes exact amounts as arguments and not a percentage. Percentage based calculations must be performed prior to method submission.
- 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.
ACHOverrides	Object		Optional *	Required for ACH payment method types
ACHOverrides.BankAccountType	String	1	Optional	Type of bank account to pull from. Valid values are: ▪ Checking ▪ Savings ▪ LoanCredit ▪ GeneralLedger *If the PaymentMethodId type is an ACH type this value is required
ACHOverrides.SecCode	String	3	Optional *	*Standard Entry Class Code applies to ACH Payment Methods Only. Valid values are: ▪ PPD ▪ CCD ▪ WEB ▪ TEL
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.

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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 MMYY.
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 FraudDetectosrObject
Frauddetectorss.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	-	Require	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
InitialTransaction.Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals
InitialTransaction.Comment1	String	128	Optional	Transaction descriptor.
InitialTransaction.Comment1	String	128	Optional	Transaction descriptor.
InitialTransaction.Comment2	String	128	Optional	Transaction descriptor.
InitialTransaction.Comment2	String	128	Optional	Transaction descriptor.
InitialTransaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code
InitialTransaction.Invoice	String	50	Optional	Recommended. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.

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InitialTransaction.IsDebtRepayment	Boolean	5	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted
InitialTransaction.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
InitialTransaction.PayerAccountd	String	16	Required	*Both payer and payment method must be specified in order to process against stored data.
InitialTransaction.paymentMethodID	String	36	Required	Valid value is a GUID. *Both payer and payment method must be specified in order to process against stored data.

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
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 Appendix for possible returned values

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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)

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Interface: REST

How to Call this Method

HTTP Element	Value
Resource URI	/protectpay/Payers/{PayerId}/PaymentMethods/ProcessedSplitPayTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/6213977865597131/PaymentMethods/ProcessedSplitPayTransactions/
```

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":"true"

}

Sample JSON response data:
{
   "Transaction":
   {
      "AVSCode": "T",
      "AuthorizationCode": "A11111",
      "CurrencyConversionRate": 0,
      "CurrencyConvertedAmount": 0,
      "CurrencyConvertedCurrencyCode": "Unsupported",
      "ResultCode":
      {
```

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```
            "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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Interface: SOAP

How to call this method

{SOAP Action}	ProcessSplitPayTransaction

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:ProcessSplitPayTransaction>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <typ:InitialTransaction>
               <typ:Amount>2000</typ:Amount>
               <typ:Comment1>ProcessSplitPayTransaction Comment 1</typ:Comment1>
               <typ:Comment2>ProcessSplitPayTransaction Comment 2</typ:Comment2>
               <typ:CurrencyCode>USD</typ:CurrencyCode>
               <typ:Invoice>Test Invoice</typ:Invoice>
               <typ:IsDebtRepayment>true</typ:IsDebtRepayment>
               <typ:OptionalOverrides>
                  <prop:Ach>
                     <prop:BankAccountType/>
                     <prop:SecCode/>
                  </prop:Ach>
                  <prop:CreditCard>
                     <prop:Billing>
                        <typ:Address1/>
                        <typ:Address2/>
                        <typ:Address3/>
                        <typ:City/>
                        <typ:Country/>
                        <typ:Email/>
                        <typ:State/>
                        <typ:TelephoneNumber/>
                        <typ:ZipCode/>
                     </prop:Billing>
                     <prop:CVV/>
                     <prop:ExpirationDate/>
                     <prop:FullName/>
                  </prop:CreditCard>
                  <prop:Payer>
                     <prop:IpAddress>127.0.0.1</prop:IpAddress>
                  </prop:Payer>
```

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```
            </typ:OptionalOverrides>
            <typ:PayerAccountId>6213977865597131</typ:PayerAccountId>
            <typ:PaymentMethodId>52d7d923-f05e-4ff1-9463-f001debbc8a2</typ:PaymentMethodId>
         </typ:InitialTransaction>
         <typ:MerchantProfileId>1234</typ:MerchantProfileId>
         <typ:SecondaryTransaction>
            <prop:Amount>222</prop:Amount>
            <prop:OriginatingAccountId>123456</prop:OriginatingAccountId>
            <prop:ReceivingAccountId>7890123</prop:ReceivingAccountId>
         </typ:SecondaryTransaction>
      </con:request>
   </con:ProcessSplitPayTransaction>
</soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <ProcessSplitPayTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <ProcessSplitPayTransactionResult xmlns:a="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult xmlns:b="http://propay.com/SPS/types">
               <b:ResultCode>00</b:ResultCode>
               <b:ResultMessage/>
               <b:ResultValue>SUCCESS</b:ResultValue>
            </a:RequestResult>
            <a:SecondaryTransactionId>2</a:SecondaryTransactionId>
            <a:Transaction xmlns:b="http://propay.com/SPS/types">
               <b:AVSCode>T</b:AVSCode>
               <b:AuthorizationCode>A11111</b:AuthorizationCode>
               <b:CurrencyConversionRate>0</b:CurrencyConversionRate>
               <b:CurrencyConvertedAmount>0</b:CurrencyConvertedAmount>
               <b:CurrencyConvertedCurrencyCode>Unsupported</b:CurrencyConvertedCurrencyCode>
               <b:ResultCode>
                  <b:ResultCode>00</b:ResultCode>
                  <b:ResultMessage/>
                  <b:ResultValue>SUCCESS</b:ResultValue>
               </b:ResultCode>
               <b:TransactionHistoryId>8394226</b:TransactionHistoryId>
               <b:TransactionId>389</b:TransactionId>
               <b:TransactionResult>Success</b:TransactionResult>
               <b:CVVResponseCode>NotPresent</b:CVVResponseCode>
               <b:GrossAmt i:nil="true"/>
               <b:NetAmt i:nil="true"/>
               <b:PerTransFee i:nil="true"/>
               <b:Rate i:nil="true"/>
               <b:GrossAmtLessNetAmt i:nil="true"/>
            </a:Transaction>
```

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```
        </ProcessSplitPayTransactionResult>
      </ProcessSplitPayTransactionResponse>
   </s:Body>
</s:Envelope>
```

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4.9.2 ProPay SplitPay Transaction with Encrypted Block Data

This method will attempt to perform a ProPay SplitPay transaction through the ProtectPay API with ProtectPay supported encrypted swipe data.

- There are two portions to this transaction:
  1. The **InitialTransaction –** the originating transaction.
  2. The **SecondaryTransaction -** The split portion of the originating transaction.

- This method uses ProPay Account Numbers instead of a MerchantProfileId.
- This method takes exact amounts as arguments and not a percentage. Percentage based calculations must be performed prior to method submission.
- 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**

❖ **Both transactions in a ProPay SplitPay must be the same currency.**

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: ▪ true ▪ false 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: ▪ SaveNew -default if not specified ▪ Error -return error if duplicate found ▪ ReturnDup -causes payment method id to be returned when duplicate found
ACHOverrides	Object		Optional *	Required for ACH payment method types
ACHOverrides.BankAccountType	String	1	Optional	Type of bank account to pull from. Valid values are: ▪ Checking ▪ Savings ▪ LoanCredit ▪ GeneralLedger *If the PaymentMethodId type is an ACH type this value is required
ACHOverrides.SecCode	String	3	Optional *	*Standard Entry Class Code applies to ACH Payment Methods Only. Valid values are:

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				▪ PPD ▪ CCD ▪ WEB ▪ TEL
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 MMYY.
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: ▪ MagTekM20 ▪ MagTekFlash ▪ IdTechUniMag ▪ Manual ▪ MagTekADynamo ▪ MagTekDynamag ▪ RoamData See Appendix.2 for additional details
EncryptedTrackData KeySerialNumber	Base64 String		Required	This value will be obtained from the ProPay supported device.

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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. Current allowed values are: ▪ USA ▪ CAN
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
InitialTransaction.Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals
InitialTransaction.Comment1	String	128	Optional	Transaction descriptor.
InitialTransaction.Comment2	String	128	Optional	Transaction descriptor.

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InitialTransaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code
InitialTransaction.Invoice	String	50	Optional	Recommended. *ProPay gateway rejects duplicates for same invoice #, card # and amount in 1 minute.
InitialTransaction.IsDebtRepayment	Boolean	-	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted
InitialTransaction.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
InitialTransaction.PayerAccountd	String	16	Required	*Both payer and payment method must be specified in order to process against stored data.
InitialTransaction.paymentMethodID	String	36	Required	Valid value is a GUID. *Both payer and payment method must be specified in order to process against stored data.
InitialTransaction.Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals
InitialTransaction.Comment1	String	128	Optional	Transaction descriptor.
InitialTransaction.Comment2	String	128	Optional	Transaction descriptor.

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
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

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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)

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Interface: REST

How to call this method

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

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/2443795125315076/
```

Sample JSON request data:

```
{
"EncryptedTrackData":
       {
       "EncryptedTrackData":"xfXe+Qv92/8IugmY3bBZlT988NxLw4e28Trvr/O0d9yRBOuy5cHT4ORij5kte5G01HKCj8Yzxxii/HhFxdfugwTvXKkgjCiysmpdVnqb
       32YD3NHWCjnx5rSU3M+o5NojdA0h11nPCjyOYdVHIPHf8oxd/ch4Rss8",
       "EncryptedTrack2Data":"Uvgy3fK68GahZsC0QEyPFGIXkQVKvI0PnFzQeIVwAF3PsbBgS6GDd61R8dfxAGTwEFUBs0mniHHgK1ht4CHUtHxIuy0+t/TW3FJHpVx
       PhWD8Eu7joweYOLyM+i9NV1WVP/Ghg5PQjrr3a5IC+1k31NbtrK+dOn0a",
       "DeviceType":7,
       "KeySerialNumber":"kBAkCwBgHQAAXA=="
   },
   "ShouldCreatePaymentMethod":true,
   "StorageInformation":null,
   "CreatePaymentMethodDuplicateAction":"ReturnDup",
   "SecondaryTransaction":
   {
      "OriginatingAccountId":123456,
      "ReceivingAccountId":7890123,
      "Amount":222
   },
   "MerchantProfileId":1234,
   "PayerAccountId":"2347995097086220",
   "Amount":2000,
   "CurrencyCode":"USD",
   "Invoice":"Test Invoice",
   "Comment1":"ProcessSplitPayTransactionWithTrackData Comment 1",
   "Comment2":"ProcessSplitPayTransactionWithTrackData Comment 2"
}
```

Sample JSON response data:

```
{
   "Transaction":
   {
      "AVSCode": "T",
      "AuthorizationCode": "A11111",
```

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```
      "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": ""
   },
   "PaymentMethodId": "4945f470-1379-4cab-8e2a-ebf3fc424f75"
}
```


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Interface: SOAP

How to call this method

{SOAP Action}	ProcessSplitPayTransactionWithEncryptedTrackData

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:prop1="http://schemas.datacontract.org/2004/07/Propay.Contracts.Common.Structures"
xmlns:prop2="http://schemas.datacontract.org/2004/07/Propay.Contracts.FraudDetection" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:ProcessSplitPayTransactionWithEncryptedTrackData>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <prop:CreatePaymentMethodDuplicateAction>SaveNew</prop:CreatePaymentMethodDuplicateAction>
            <prop:EncryptedTracks>
       <prop1:DeviceType>RoamData</prop1:DeviceType>
       <prop1:EncryptedTrack2Data>Uvgy3fK68GahZsC0QEyPFGIXkQVKvI0PnFzQeIVwAF3PsbBgS6GDd61R8dfxAGTwEFUBs0mniHHgK1ht4CHUtHxIuy0+t/TW3FJ
       HpVxPhWD8Eu7joweYOLyM+i9NV1WVP/Ghg5PQjrr3a5IC+1k31NbtrK+dOn0a</prop1:EncryptedTrack2Data>
       <prop1:EncryptedTrackData>xfXe+Qv92/8IugmY3bBZlT988NxLw4e28Trvr/O0d9yRBOuy5cHT4ORij5kte5G01HKCj8Yzxxii/HhFxdfugwTvXKkgjCiysmpd
       Vnqb32YD3NHWCjnx5rSU3M+o5NojdA0h11nPCjyOYdVHIPHf8oxd/ch4Rss8</prop1:EncryptedTrackData>
                 <prop1:KeySerialNumber>kBAkCwBgHQAAXA==</prop1:KeySerialNumber>
            </prop:EncryptedTracks>
            <prop:MerchantProfileId>12345</prop:MerchantProfileId>
            <prop:SecondaryTransaction>
               <prop:Amount>2000</prop:Amount>
               <prop:OriginatingAccountId>12345</prop:OriginatingAccountId>
               <prop:ReceivingAccountId>67890</prop:ReceivingAccountId>
            </prop:SecondaryTransaction>
            <prop:ShouldCreatePaymentMethod>True</prop:ShouldCreatePaymentMethod>
            <prop:StorageInformation>
               <prop:AccountName>John</prop:AccountName>
               <prop:BillingInfo>
                  <typ:Address1></typ:Address1>
                  <typ:Address2></typ:Address2>
                  <typ:Address3></typ:Address3>
                  <typ:City></typ:City>
                  <typ:Country></typ:Country>
                  <typ:Email></typ:Email>
                  <typ:State></typ:State>
                  <typ:TelephoneNumber></typ:TelephoneNumber>
                  <typ:ZipCode></typ:ZipCode>
               </prop:BillingInfo>
```

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```
            <prop:Description>Test</prop:Description>
         </prop:StorageInformation>
         <prop:Transaction>
            <typ:Amount>2000</typ:Amount>
            <typ:Comment1></typ:Comment1>
            <typ:Comment2></typ:Comment2>
            <typ:CurrencyCode>USD</typ:CurrencyCode>
            <typ:Invoice>Test Invoice</typ:Invoice>
            <typ:MerchantProfileId>123456</typ:MerchantProfileId>
            <typ:PayerAccountId>123456789</typ:PayerAccountId>
         </prop:Transaction>
      </con:request>
   </con:ProcessSplitPayTransactionWithEncryptedTrackData>
</soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <ProcessSplitPayTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <ProcessSplitPayTransactionResult xmlns:a="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult xmlns:b="http://propay.com/SPS/types">
               <b:ResultCode>00</b:ResultCode>
               <b:ResultMessage/>
               <b:ResultValue>SUCCESS</b:ResultValue>
            </a:RequestResult>
            <a:SecondaryTransactionId>2</a:SecondaryTransactionId>
            <a:Transaction xmlns:b="http://propay.com/SPS/types">
               <b:AVSCode>T</b:AVSCode>
               <b:AuthorizationCode>A11111</b:AuthorizationCode>
               <b:CurrencyConversionRate>0</b:CurrencyConversionRate>
               <b:CurrencyConvertedAmount>0</b:CurrencyConvertedAmount>
               <b:CurrencyConvertedCurrencyCode>Unsupported</b:CurrencyConvertedCurrencyCode>
               <b:ResultCode>
                  <b:ResultCode>00</b:ResultCode>
                  <b:ResultMessage/>
                  <b:ResultValue>SUCCESS</b:ResultValue>
               </b:ResultCode>
               <b:TransactionHistoryId>8394226</b:TransactionHistoryId>
               <b:TransactionId>389</b:TransactionId>
               <b:TransactionResult>Success</b:TransactionResult>
               <b:CVVResponseCode>NotPresent</b:CVVResponseCode>
               <b:GrossAmt i:nil="true"/>
               <b:NetAmt i:nil="true"/>
               <b:PerTransFee i:nil="true"/>
               <b:Rate i:nil="true"/>
```

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```
            <b:GrossAmtLessNetAmt i:nil="true"/>
         </a:Transaction>
      </ProcessSplitPayTransactionResult>
   </ProcessSplitPayTransactionResponse>
</s:Body>
</s:Envelope>
```

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4.9.3 Reverse ProPay SplitPay Transaction

This method will perform a two part reversal of a ProPay SplitPay transaction through the.

- The response for this method includes two transaction numbers:
  1. The **TransactionId** is the reversal of the split.
  2. The **SecondaryTransactionId** is the refund of the credit card that occurs after the split is reversed.

❖ For additional information please see: ProPay API method 'SplitPay Reversal'.

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.
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 pushed back from the destination side of the original split to the originating side.
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.

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
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.

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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 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
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)

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Interface: REST

How to call this method:

HTTP Element	Value
Resource URI	/protectpay/ReversedSplitPayTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

Sample JSON request data:

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

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,
```

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```
      "GrossAmtLessNetAmt": null
   },
   "SecondaryTransactionId": "0"
}
```


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Interface: SOAP

How to call this method

{SOAP Action}	ReverseSplitPayTransaction

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:ReverseSplitPayTransaction>
         <con:id>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:id>
         <con:request>
            <prop:CreditCardReversalAmount>200</prop:CreditCardReversalAmount>
            <prop:PropayToPropayAccountId>123456</prop:PropayToPropayAccountId>
            <prop:PropayToPropayReversalAmount>100</prop:PropayToPropayReversalAmount>
            <prop:RequireCreditCardRefund>true</prop:RequireCreditCardRefund>
            <prop:TransactionId>2</prop:TransactionId>
         </con:request>
      </con:ReverseSplitPayTransaction>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <ReverseSplitPayTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <ReverseSplitPayTransactionResult xmlns:a="http://schemas.datacontract.org/2004/07/Propay.Contracts.SPS.External"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:RequestResult xmlns:b="http://propay.com/SPS/types">
               <b:ResultCode>00</b:ResultCode>
               <b:ResultMessage/>
               <b:ResultValue>SUCCESS</b:ResultValue>
            </a:RequestResult>
            <a:SecondaryTransactionId>0</a:SecondaryTransactionId>
            <a:Transaction xmlns:b="http://propay.com/SPS/types">
               <b:AVSCode>NotPresent</b:AVSCode>
               <b:AuthorizationCode i:nil="true"/>
               <b:CurrencyConversionRate>0</b:CurrencyConversionRate>
               <b:CurrencyConvertedAmount>0</b:CurrencyConvertedAmount>
               <b:CurrencyConvertedCurrencyCode>Unsupported</b:CurrencyConvertedCurrencyCode>
               <b:ResultCode>
                  <b:ResultCode>00</b:ResultCode>
```

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```
                  <b:ResultMessage/>
                  <b:ResultValue>SUCCESS</b:ResultValue>
               </b:ResultCode>
               <b:TransactionHistoryId>0</b:TransactionHistoryId>
               <b:TransactionId>393</b:TransactionId>
               <b:TransactionResult>Success</b:TransactionResult>
               <b:CVVResponseCode>NotPresent</b:CVVResponseCode>
               <b:GrossAmt i:nil="true"/>
               <b:NetAmt i:nil="true"/>
               <b:PerTransFee i:nil="true"/>
               <b:Rate i:nil="true"/>
               <b:GrossAmtLessNetAmt i:nil="true"/>
            </a:Transaction>
         </ReverseSplitPayTransactionResult>
      </ReverseSplitPayTransactionResponse>
   </s:Body>
</s:Envelope>
```

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4.9.4 Find ProPay MasterMobile Swiped Payment Methods

This method will return an array of PayerIds and associated PaymentMethodIds which have been swiped by MasterMobile sub users processing for a specified ProPay merchant account using a supported swipe device.

- 1 or more of the query string parameters must be specified.
- Card Brand Regulations require after either 7 days or after the first time a card is processed the associated swiped card data is "expired". It is removed leaving only the parsed information. This means that stored cards are eligible for processing as "card present transactions" only before seven days or before the first time it is processed.

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.
CardHolderName	String	50	Optional	Used to filter the information returned by this method. (Card holder's name)
CreationEndDate	Date	NA	Optional	Used to filter the information returned by this method. Date range during which the card number was captured on a device Example: 2012-12-12T00:00:00 or simply 2012-12-12
CreationStartDate	Date	NA	Optional	Used to filter the information returned by this method. Date range during which the card number was captured on a device Example: 2012-12-12T00:00:00 or simply 2012-12-12
CreatorUserName	String	100	Required	The username of the individual who stored the card on a ProPay approved swipe device
EventId	String	20	Optional	Used to filter the information returned by this method. If passed, only cards tagged with this EventId are returned.
HasTrackData	Boolean		Optional	True or False; Used to cause that the service only returns payment methods still eligible for card present processing.

Response values defined

Response Element	Type	Notes
Result .ArgumentID	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
Result .ResultCode	String	The ProtectPay API Method Response Code. See Appendix for possible returned Values
Result .ResultMessage	String	The ProtectPay API Method Response Message. See Appendix for possible returned Messages
PaymentMethod[].CardHolderName	String	Card Holder's Name
PaymentMethod[].CreationDate	DateTime	Date Payment Method was Captured
PaymentMethod[].EventID	String	The Event ID the Payment Method was Created
PaymentMethod[].ExpirationDate	String	The expiration date for a payment method.
PaymentMethod[].LastFour	String	The Last 4 numbers of the Payment Method

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PaymentMethod[].PayerID	Long	The PayerID the Payment Method Belongs to
PaymentMethod[].PaymentMethodID	String	The Payment Method GUID
PaymentMethod[].PaymentMethodType	String	The Type of Payment Method (Visa, MasterCard, AMEX, Discover, etc.)
PaymentMethod[].Protected	Boolean	Payment methods set to 'true' cannot be deleted by a payer
PaymentMethod[].ValidForCardPresent	Boolean	Whether or Not this Payment Method is valid for Card Present Rates

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/PaymentMethods/{creatorUsername}/?cardHolderName={cardHolderName}&creationStartDate={creationStartDate}&creationEndDate={creationEndDate}&eventId={eventId}
Method	GET
Authorization	See section 3.2.1 REST Interface

Sample REST request URI:

```
https://xmltestapi.propay.com/protectpay/Payers/5823760912097888/PaymentMethods/a4811b70-392e-45b3-93cf-b724b6e3b633/?cardHolderName=Kevin%20Waterson&creationStartDate=2014-08-18T15:10:54.74
```

Sample JSON request data:

```
URL ONLY
```

Sample JSON response data:


```
{
   "PaymentMethods":[
      {
         "PayerId":5823760912097888,
         "PaymentMethodId":"a4811b70-392e-45b3-93cf-b724b6e3b633",
         "LastFour":"1111",
         "CardholderName":"Kevin Waterson",
         "ExpirationDate":"0815",
         "ValidForCardPresent":false,
         "Protected":true,
         "CreationDate":"2014-08-18T15:10:54.74",
         "PaymentMethodType":"Visa",
         "EventId":null
      }
   ],
   "Result":
   {
      "ResultCode":0,
      "ResultMessage":"",
      "ArgumentId":0
   }
}
```


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How to call this method

{SOAP Action}	FindPaymentMethods

Sample SOAP XML request including all mandatory and optional elements:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:FindPaymentMethods>
         <con:request>
            <typ:BillerId>
               <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
               <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
            </typ:BillerId>
            <typ:CardHolderName>John Smith</typ:CardHolderName>
            <typ:CreationEndDate>12-31-1900</typ:CreationEndDate>
            <typ:CreationStartDate>1-1-1900</typ:CreationStartDate>
            <typ:CreatorUsername>JSParrow</typ:CreatorUsername>
            <typ:EventId>123456</typ:EventId>
            <typ:HasTrackData>false</typ:HasTrackData>
         </con:request>
      </con:FindPaymentMethods>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <FindPaymentMethodsResponse xmlns="http://propay.com/SPS/contracts">
         <FindPaymentMethodsResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <Result xmlns="http://propay.com/types">
               <ArgumentId>0</ArgumentId>
               <ResultCode>0</ResultCode>
               <ResultMessage/>
            </Result>
            <a:PaymentMethods>
               <a:PaymentMethodDetails>
                  <a:CardholderName>Inigo Montoya</a:CardholderName>
                  <a:CreationDate>2014-02-20T12:01:14.91</a:CreationDate>
                  <a:EventID>123456</a:EventID>
                  <a:ExpirationDate>0216</a:ExpirationDate >
                  <a:LastFour>1111</a:LastFour>
                  <a:PayerId>9102491486295564</a:PayerId>
                  <a:PaymentMethodId>afc5068e-f188-4284-a137-f04a15bdaf8f</a:PaymentMethodId>
                  <a:PaymentMethodType>Visa</a:PaymentMethodType>
                  <a:Protected>false</a:Protected>
```

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```
                <a:ValidForCardPresent>false</a:ValidForCardPresent>
             </a:PaymentMethodDetails>
          </a:PaymentMethods>
       </FindPaymentMethodsResult>
    </FindPaymentMethodsResponse>
  </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**FindPaymentMethods(FindPaymentMethodsRequest)**	**FindPaymentMethodsResult**

Request Object

Request Object:	Elements
FindPaymentMethodsRequest	EmailAddress
	CardHolderName
	CreationEndDate
	CreationStartDate
	CreatorUserName
	EventID
	HasTrackData

	Sub-Object	Elements:
BillerID	**ID**	AuthenticationToken
		BillerID

Response Object

Response Object:	Elements	Sub-Object	Elements
FindPaymentMethodsResult	Result	**Result1**	ArgumentID
			ResultCode
			ResultMessage

	Sub-Object	Elements
PaymentMethods[]	**PaymentMethodDetails**	CardHolderName
		CreationDate
		EventID
		ExpirationDate
		LastFour
		PayerID
		PaymentMethodID
		Protected
		ValidForCardPresent

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4.10 External ProtectPay Processing Methods

The following methods interface external payment processing systems from ProtectPay.

4.10.1 Authorize External Transaction

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
BillerAccountId	String	16	Authorization	Value supplied by ProPay. Used to identify the correct collection of tokens.
IsAuthorizationOnly	Boolean		Required *REST Only	Valid values are: ▪ true ▪ false Indicates whether to only authorize the transaction, or authorize and then process the transaction.
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: ▪ None ▪ Visa Checkout
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.
Transaction .Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction.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
Transaction.Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.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.
Transaction.IsDebtRepayment	Boolean	-	Optional	Valid Values are: ▪ True ▪ False

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				Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted
Transaction.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 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)

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/ExternalPaymentMethods/ProcessedTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

*Set IsAuthorizationOnly to: true

Sample JSON request data:

```
{
   "Amount":12300,
   "Comment1":"comment one",
   "Comment2":"comment two",
   "CurrencyCode":"USD",
   "Invoice":"69c73c5fbec9432ca7071ff90ac5ea35",
   "IsAuthorizationOnly":true,
   "MerchantProfileId":1234,
   "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,
```

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```
      "PerTransFee": 25,
      "Rate": 2.69,
      "GrossAmtLessNetAmt": 356
   },
   "RequestResult":
   {
      "ResultValue": "SUCCESS",
      "ResultCode": "00",
      "ResultMessage": ""
   }
}
```


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SOAP Action

HTTP Header	Value
SOAP Action	AuthorizeExternalPaymentMethodTransaction

Sample XML request including all mandatory and optional tags:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External.SPSServiceData"
xmlns:prop1="http://schemas.datacontract.org/2004/07/ProPay.Contracts.Common.ExternalPaymentMethods"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:AuthorizeExternalPaymentMethodTransaction>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:externalPaymentMethodTransaction>
            <prop:Amount>12300</prop:Amount>
            <prop:Comment1>comment one</prop:Comment1>
            <prop:Comment2>comment two</prop:Comment2>
            <prop:CurrencyCode>USD</prop:CurrencyCode>
            <prop:Invoice>Test Invoice</prop:Invoice>
            <prop:MerchantProfileId>1234</prop:MerchantProfileId>
            <prop:PaymentMethodLookup>
               <prop1:CheckoutResourceUrl></prop1:CheckoutResourceUrl>
               <prop1:Identifier>4066401690744142168</prop1:Identifier>
               <prop1:Provider>1</prop1:Provider>
               <prop1:Verifier></prop1:Verifier>
            </prop:PaymentMethodLookup>
         </con:externalPaymentMethodTransaction>
      </con:AuthorizeExternalPaymentMethodTransaction>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <AuthorizeExternalPaymentMethodTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <AuthorizeExternalPaymentMethodTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
```

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```
            </a:RequestResult>
            <a:Transaction>
               <a:AVSCode>N</a:AVSCode>
               <a:AuthorizationCode>TAS601</a:AuthorizationCode>
               <a:CurrencyConversionRate>1</a:CurrencyConversionRate>
               <a:CurrencyConvertedAmount>500</a:CurrencyConvertedAmount>
               <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
               <a:GrossAmt>100</a:GrossAmt>
               <a:GrossAmtLessNetAmt>28</GrossAmtLessNetAmt>
               <a:NetAmt>72</a:NetAmt>
               <a:PerTransFee>25</PerTransFee>
               <a:Rate>2.69</a:Rate>
               <a:ResultCode>
                  <a:ResultCode>00</a:ResultCode>
                  <a:ResultMessage/>
                  <a:ResultValue>SUCCESS</a:ResultValue>
               </a:ResultCode>
               <a:TransactionHistoryId>21487069</a:TransactionHistoryId>
               <a:TransactionId>440</a:TransactionId>
               <a:TransactionResult>Success</a:TransactionResult>
            </a:Transaction>
         </AuthorizeExternalPaymentMethodTransactionResult>
      </AuthorizeExternalPaymentMethodTransactionResponse>
   </s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**AuthorizeExternalPaymentMethodTransaction(ID,ExternalPaymentMethodTransaction)**	**TransactionResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements	Sub-Object	Elements
ExternalPaymentMethodTransaction	Amount		
	Comment1		
	Comment2		
	Invoice		
	MerchantProfileId		
	PaymentMethodLookup	**PaymentMethodLookup**	CheckoutResourceUrl
			Identifier
			System
			Verifier

Response Object

Response Object:	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResult	RequestResult	**Result**	ResultValue		
			ResultCode		
			ResultMessage		
	Transaction	**TransactionInformation**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConverted Amount		
			CurrencyConverted CurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		

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			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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4.10.2 Process External Transaction

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.
IsAuthorizationOnly	Boolean		Required *REST Only	Valid values are: ▪ true ▪ false Indicates whether to only authorize the transaction, or authorize and then process the transaction.
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: 0 = None 1 = Visa Checkout
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.
Transaction .Amount	Integer		Required	The value representing the number of pennies in USD, or the number of [currency] without decimals.
Transaction.CurrencyCode	String	3	Required	ISO 4217 standard 3 character currency code.
Transaction.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
Transaction.Comment1	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.Comment2	String	128	Optional	Transaction descriptor. Only passed if supported by the gateway.
Transaction.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.
Transaction.IsDebtRepayment	Boolean	-	Optional	Valid Values are: ▪ True ▪ False Only applicable for LegacyProPay and LegacyProPayCan gateways Defaults to False if not submitted

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Transaction.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 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)

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Interface: REST

How to call this method

HTTP Element	Value
Resource URI	/protectpay/ExternalPaymentMethods/ProcessedTransactions/
Method	PUT
Authorization	See section 3.2.1 REST Interface

*Set IsAuthorizationOnly to: false

Sample JSON request data:

```
{
   "Amount":12300,
   "Comment1":"comment one",
   "Comment2":"comment two",
   "CurrencyCode":"USD",
   "Invoice":"69c73c5fbec9432ca7071ff90ac5ea35",
   "IsAuthorizationOnly":false,
   "MerchantProfileId":1234,
   "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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```
    }
}
```

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SOAP Action

HTTP Header	Value
SOAP Action	ProcessExternalPaymentMethodTransaction

Sample XML request including all mandatory and optional tags:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:con="http://propay.com/SPS/contracts"
xmlns:typ="http://propay.com/SPS/types" xmlns:prop="http://schemas.datacontract.org/2004/07/ProPay.Contracts.SPS.External.SPSServiceData"
xmlns:prop1="http://schemas.datacontract.org/2004/07/ProPay.Contracts.Common.ExternalPaymentMethods"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
   <soapenv:Header/>
   <soapenv:Body>
      <con:ProcessExternalPaymentMethodTransaction>
         <con:identification>
            <typ:AuthenticationToken>MyAuthToken</typ:AuthenticationToken>
            <typ:BillerAccountId>MyBillerId</typ:BillerAccountId>
         </con:identification>
         <con:externalPaymentMethodTransaction>
            <prop:Amount>12300</prop:Amount>
            <prop:Comment1>comment one</prop:Comment1>
            <prop:Comment2>comment two</prop:Comment2>
            <prop:CurrencyCode>USD</prop:CurrencyCode>
            <prop:Invoice>Test Invoice</prop:Invoice>
            <prop:MerchantProfileId>1234</prop:MerchantProfileId>
            <prop:PaymentMethodLookup>
               <prop1:CheckoutResourceUrl></prop1:CheckoutResourceUrl>
               <prop1:Identifier>4066401690744142168</prop1:Identifier>
               <prop1:Provider>1</prop1:Provider>
               <prop1:Verifier></prop1:Verifier>
            </prop:PaymentMethodLookup>
         </con:externalPaymentMethodTransaction>
      </con:ProcessExternalPaymentMethodTransaction>
   </soapenv:Body>
</soapenv:Envelope>
```

Sample SOAP XML Response:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <ProcessExternalPaymentMethodTransactionResponse xmlns="http://propay.com/SPS/contracts">
         <ProcessExternalPaymentMethodTransactionResult xmlns:a="http://propay.com/SPS/types" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
            <a:RequestResult>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
```

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```
            <a:ResultValue>SUCCESS</a:ResultValue>
         </a:RequestResult>
         <a:Transaction>
            <a:AVSCode>N</a:AVSCode>
            <a:AuthorizationCode>TAS601</a:AuthorizationCode>
            <a:CurrencyConversionRate>1</a:CurrencyConversionRate>
            <a:CurrencyConvertedAmount>500</a:CurrencyConvertedAmount>
            <a:CurrencyConvertedCurrencyCode>USD</a:CurrencyConvertedCurrencyCode>
            <a:GrossAmt>100</a:GrossAmt>
            <a:GrossAmtLessNetAmt>28</GrossAmtLessNetAmt>
            <a:NetAmt>72</a:NetAmt>
            <a:PerTransFee>25</PerTransFee>
            <a:Rate>2.69</a:Rate>
            <a:ResultCode>
               <a:ResultCode>00</a:ResultCode>
               <a:ResultMessage/>
               <a:ResultValue>SUCCESS</a:ResultValue>
            </a:ResultCode>
            <a:TransactionHistoryId>21487069</a:TransactionHistoryId>
            <a:TransactionId>440</a:TransactionId>
            <a:TransactionResult>Success</a:TransactionResult>
         </a:Transaction>
      </ ProcessExternalPaymentMethodTransactionResult >
   </ ProcessExternalPaymentMethodTransactionResponse >
</s:Body>
</s:Envelope>
```

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Interface: WSDL

WSDL Operation

Object	Method	Response Object
SPSServiceClient	**ProcessExternalPaymentMethodTransaction(ID,ExternalPaymentMethodTransaction)**	**TransactionResult**

Request Objects

Request Object:	Elements
ID	AuthenticationToken
	BillerAccountID

Request Object:	Elements	Sub-Object	Elements
ExternalPaymentMethodTransaction	Amount		
	Comment1		
	Comment2		
	Invoice		
	MerchantProfileId		
	PaymentMethodLookup	**PaymentMethodLookup**	CheckoutResourceUrl
			Identifier
			System
			Verifier

Response Object

Response Object:	Elements	Sub-Object	Elements	Sub-Object	Elements
TransactionResult	RequestResult	**Result**	ResultValue		
			ResultCode		
			ResultMessage		
	Transaction	**TransactionInformation**	AuthorizationCode		
			AVSCode		
			CurrencyConversionRate		
			CurrencyConverted Amount		
			CurrencyConverted CurrencyCode		
			CVVResponseCode		
			GrossAmt		
			GrossAmtLessNetAmt		
			NetAmt		
			PerTransFee		
			Rate		
			TransactionHistoryId		
			TransactionId		

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			TransactionResult		
			ResultCode	**Result**	ResultValue
					ResultCode
					ResultMessage

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