



CONTENT:

Inventory for GTP Partner SOAP API Web Services

Version 2.4

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1 INTRODUCTION

Global Technology Partners (GTP) Web Services enable the clients and/or partners of GTP to communicate with the processing environments of GTP.

To be able to consume the web service, clients/partners must reference the WSDL that defines the interface for the web service.

1.1 PURPOSE AND SCOPE

The main purpose of this document is to define the interface specifications (service contracts) for the web service to be provided by GTP for its clients and partners. This document provides documentation of the Web Services Description Language (WSDL) for the web services.

This document does not describe the actual business processes involved in each operation (or method) that is provided by the service.

Also, the specifications for digitally securing the web service messages are not discussed in this document.

1.2 SECURITY

GTP Web Service API's are protected to ensure that only authorized clients / partners use them. There are multiple levels of security:

1. Security Token ID

- GTP will assign a security token to the registered client / partner.
- The security token must be sent by consuming applications in the SOAP message header.

2. API Restrictions

- GTP and client / partner will determine which of the API's client / partner can access. GTP will restrict usage of unauthorized API's by client / partner.

3. Secure Sockets Layer (SSL) data transport.

- All GTP Web Service API's must be consumed over HTTPS.

1.3 ACRONYMS AND ABBREVIATIONS

SOAP	- Protocol for exchanging XML-based messages over networks, normally via HTTP/HTTPS. This was once an acronym for <i>Simple Object Access Protocol</i> .
GTP	- Global Technology Partners
WSDL	- Web Services Description Language. An XML-based set of documents that provides a description of a web service.
XML	- Extensible Markup Language
XSD	- XML Schema. A description of a type of XML document.

2 WSDL INTERFACE DEFINITION

The definition file for the GTP Partner API Web Service (WSDL) is located at <https://www.gtpsecurecard.com/GTPServices/PartnerAPIWebService.svc?wsdl> (restricted access, flattened file). This file provides the functional definition of the objects and methods available through the API. Any methods which take parameters require a single *Request object. Any methods which produce an output return a single *Result object.

2.1 OPERATIONS

The operations that are provided by the web service are defined by the *XML Schema (XSD)* request schema in the WSDL.

These operations are described in more detail in the succeeding sections of this document.

Responses for the operations are also defined in the *XML Schema (XSD)* response schema definitions in the WSDL.

All requests contain a standard header along with data specific to the operation requested. All responses contain a standard header along with result data specific to the operation requested.

The **binding** element of the WSDL file defines the message format and protocol details used by the web service for its operations. All operations have the following binding properties:

- Binding Style: **document**
- Transport Type: **SOAP over HTTPS**

2.1.1 BalanceRequest**Description**

This operation is used to request the balance and currency of a customer account.

Request Message

a) `xsi:type="BalanceRequest"`

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	Customer ID. No zero padding.	10 digits	Yes

b) `xsi:type="BalanceRequestPAN"`

Element	Type	Additional Information	Max Len	Required?
PAN	xsd:string		16 digits	Yes

c) `xsi:type="BalanceRequestMobile"`

Element	Type	Additional Information	Max Len	Required?
MobilePhoneNumber	xsd:string		18 digits	Yes

Response Message

`xsi:type="BalanceResponse"`

Element	Type	Additional Information
Balance	xsd:decimal	The balance on the customer's account.
CurrencyCode	xsd:string	The three character ISO 4217 Currency Code of the customer's account.

2.1.2 RegistrationRequest

Description

This operation is used to register a personalized card. Personalized cards must be ordered and will be delivered according to predefined agreements. Personalized cards are not available for immediate distribution. These cards are embossed with the individual's information.

Request Message

xsi:type="RegistrationRequest"

Element	Type	Additional Information	Max Len	Required?
FirstName	xsd:string		50	Yes
MiddleName	xsd:string		50	No
LastName	xsd:string		50	Yes
PreferredName	xsd:string	Name printed on card	19	Yes
OtherCustomerID	xsd:string	Client / Partner specific ID that uniquely identifies account holder	20	No
OtherCompanyName	xsd:string	Information embossed on second line of card.		No
Address1	xsd:string		50	Yes
Address2	xsd:string		50	No
Address3	xsd:string		50	No
City	xsd:string		50	Yes
Country	xsd:string	Two character country code.	2	Yes
StateRegion	xsd:string	Two character State/Region code specific to Country	2	Yes
PostalCode	xsd:string		30	No
BirthDate	xsd:string	format: DD-MMM-YYYY (17-JAN-1985)	11	Yes
IDType	xsd:int	1: Passport,2:National ID, 3:Driver's License,4:Other	1 digit	Yes
IDValue	xsd:string	Value corresponding to the IDType	30	Yes
MobilePhoneNumber	xsd:string		18	Yes
AlternatePhoneNumber	xsd:string		18	No
EmailAddress	xsd:string		100	No
CustomerSource	xsd:string	"SKYE", "ROAMWARE", "OTHER"	8	Yes
ReferredBy	xsd:int	Range Assigned by GTP	10 digits	Yes
SubCompany	xsd:int	Range Assigned by GTP	10 digits	Yes

Response Message

xsi:type="RegistrationResponse"

Element	Type	Additional Information
RegistrationCustomerID	xsd:int	The customer ID of the newly created account holder.

2.1.3 InstantRegistrationRequest

Description

This operation is used to register an Instant Issue card. Instant Issue cards are available for immediate distribution / registration. These cards are not embossed with the individual's information. The InstantRegistrationRequest operation assigns customer information to an instant issue card.

Request Message

xsi:type="InstantRegistrationRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	Customer ID. No zero padding.	10 digits	Yes
FirstName	xsd:string		50	Yes
MiddleName	xsd:string		50	No
LastName	xsd:string		50	Yes
PreferredName	xsd:string	Name printed on card	19	Yes
OtherCustomerID	xsd:string	Client / Partner specific ID that uniquely identifies account holder	20	No
Address1	xsd:string		50	Yes
Address2	xsd:string		50	No
Address3	xsd:string		50	No
City	xsd:string		50	Yes
Country	xsd:string	Two character country code.	2	Yes
StateRegion	xsd:string	Two character State/Region code specific to Country	2	Yes
PostalCode	xsd:string		30	No
BirthDate	xsd:string	format: DD-MMM-YYYY (17-JAN-1985)	11	Yes
IDType	xsd:int	1: Passport,2: National ID, 3:Driver's License,4:Other	1 digit	Yes
IDValue	xsd:string	Value corresponding to the IDType	30	Yes
MobilePhoneNumber	xsd:string		18	Yes
AlternatePhoneNumber	xsd:string		18	No
EmailAddress	xsd:string		100	No
CustomerSource	xsd:string	"SKYE", "ROAMWARE", "OTHER"	8	Yes
SubCompany	xsd:int	Range Assigned by GTP	10 digits	Yes

Response Message

xsi:type="RegistrationResponse"

Element	Type	Additional Information
RegistrationCustomerID	xsd:int	The customer ID corresponding to the account holder.

2.1.4 VirtualRegistrationRequest**Description**

This operation is used to register virtual cards. Inclusion of the 'Return' parameter will return the webcode necessary for a cardholder to access and establish an account on the GTP Cardholder portal, to retrieve sensitive account data.
xsi:type="VirtualRegistrationRequest"

Element	Type	Additional Information	Max Len	Required?
FirstName	xsd:string		50	Yes
MiddleName	xsd:string		50	No
LastName	xsd:string		50	Yes
OtherCustomerID	xsd:string	Client / Partner specific ID that uniquely identifies account holder	20	No
OtherCompanyName	xsd:string	Information embossed on second line of card.		No
Address1	xsd:string		50	Yes
Address2	xsd:string		50	No
Address3	xsd:string		50	No
City	xsd:string		50	Yes
Country	xsd:string	Two character country code.	2	Yes
StateRegion	xsd:string	Two character State/Region code specific to Country	2	Yes
PostalCode	xsd:string		30	No
BirthDate	xsd:string	format: DD-MMM-YYYY (17-JAN-1985)	11	Yes
IDType	xsd:int	1: Passport,2:National ID, 3:Driver's License,4:Other	1 digit	Yes
IDValue	xsd:string	Value corresponding to the IDType	30	Yes
MobilePhoneNumber	xsd:string		18	Yes
AlternatePhoneNumber	xsd:string		18	No
EmailAddress	xsd:string		100	No
CustomerSource	xsd:string	Value determined by program sponsor, can be "OTHER"	8	Yes
ReferredBy	xsd:int	Range Assigned by GTP	10 digits	Yes
SubCompany	xsd:int	Range Assigned by GTP	10 digits	Yes
Return	xsd:string	"RETURNPASSCODE" will provide the webcode for the account holder to access the cardholder portal for sensitive data; treat as protected	14	No
ExpirationDate	xsd:string	format: DD-MMM-YYYY. Optional expiration date of card. Cannot exceed default expiration date.	11	No
NotificationMethod	xsd:string	"NONE"	4	No

Response Message

xsi:type="VirtualRegistrationResponse"

Element	Type	Additional Information
RegistrationCustomerID	xsd:int	The customer ID of the newly created account holder.
RegistrationLast4Digits	xsd:string	The last four digits of 16 digit PAN of the new card.
RegistrationPasscode	xsd:string	The webcode for accessing sensitive account data.

2.1.5 CustomerDataRequest**Description**

This operation retrieves customer registration information.

Request Message

xsi:type="CustomerDataRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes

Response Message

xsi:type="CustomerDataResponse"

Element	Type	Additional Information
FirstName	xsd:string	
MiddleName	xsd:string	
LastName	xsd:string	
PreferredName	xsd:string	Name printed on card (if supplied)
OtherCustomerID	xsd:string	Client / Partner specific ID that uniquely identifies account holder
Address1	xsd:string	
Address2	xsd:string	
Address3	xsd:string	
City	xsd:string	
Country	xsd:string	Two character country code.
StateRegion	xsd:string	Two character State/Region code specific to Country
PostalCode	xsd:string	
BirthDate	xsd:string	format: DD-MMM-YYYY (17-JAN-1985)
IDType	xsd:int	1: Passport, 2: National ID, 3: Driver's License, 4: Other
IDValue	xsd:string	Value corresponding to the IDType
MobilePhoneNumber	xsd:string	
AlternatePhoneNumber	xsd:string	
EmailAddress	xsd:string	

2.1.6 CustomerUpdateRequest

Description

This operation updates a Mobile phone number or email or both depending on the request.

Request Message

xsi:type="CustomerUpdateRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:long	No zero padding	10	Yes
MobilePhoneNumber	xsd:string		18	Conditional
EmailAddress	xsd:string		100	Conditional

Response Message

xsi:type="CustomerUpdateResponse"

Element	Type	Additional Information
UpdateCount	xsd:int	1 or 2

2.1.7 GetCardDataRequest

Description

This operation is used retrieve CustomerID or Mobile phone based on PAN.

Request Message

xsi:type="GetCardDataRequest"

Element	Type	Additional Information	Max Len	Required?
PAN	xsd:string	No padding zeros	10	Yes
Return	xsd:string	CustomerID or mobile Phone		Yes

Response Message

xsi:type="GetCardDataResponse"

Element	Type	Additional Information
CustomerID	xsd:string	No padding zeros
MobilePhone	xsd:string	

2.1.8 GetPANRequest

Description

This operation is used to return the PAN. Must support message level encryption and maintain compliance with PCI DSS to access.

Request Message

xsi:type="GetPANRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:long	No padding zeros	10	Yes

Response Message

xsi:type="GetCardDataResponse"

Element	Type	Additional Information
PAN	xsd:string	

2.1.9 GetCardInfoRequest

Description

This operation is used to retrieve sensitive authorization information for a card. Must support message level encryption and maintain compliance with PCI DSS to access. Documentation of compliance is required to be presented as an AOC that has been provided by a certified QSA.

Request Message

xsi:type="GetCardInfoRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No padding zeros	10	Yes
Last4Digits	xsd:string			Yes

Response Message

xsi:type="GetCardInfoResponse"

Element	Type	Additional Information
PAN	xsd:string	No padding zeros
Name	xsd:string	First name followed by last name of cardholder
ExpireDate	xsd:string	Card expiration date. Format DD-MMM-YYYY
CVV	xsd:string	Card verification value
CardStatus	xsd:string	Card account status; 'AC' indicates valid CVV

2.1.10 VerifyCardRequest**Description**

This operation is used to verify whether the card exists on the GTP platform. Must support message level encryption and maintain compliance with PCI DSS to access.

Request Message

xsi:type="VerifyCardRequest"

Element	Type	Additional Information	Max Len	Required?
AccountNumber	xsd:string	16 digit customer Primary Account Number	19 digits	Yes
CardSecurityPresence	xsd:string	Value 1 – Present or 0 – Not Present	3	Yes
ExtCardSecurityValues	xsd:string	CVV2 code	3	Yes
ExpirationDate	xsd:string	Format: MMYE Example – [0117]	4	Yes
Mop	xsd:string	VI – Visa , MA - MasterCard	2	Yes
OrderNumber	xsd:string	MTCN code or Reference Memo	50	Yes
DivisionNumber	xsd:string	Division Number	20	No
Amount	xsd:dec	format: nnnnnnnnnnnnnnnn.nn	20	Yes
CurrencyCode	xsd:int	Currency Code (Example 840)	3	Yes
ActionCode	xsd:string	Action code	2	No
TelephoneType	xsd:string	Types M- Mobile H-home O - Office	1	No
TelephoneNumber	xsd:string	Max 12 digits	12	No
NameText	xsd:string	Name Text	25	No
Address1	xsd:string	Address Line1	50	No
Address2	xsd:string	Address Line2	50	No
City	xsd:string	City	50	No
CountryCode	xsd:string	Two-character country code	2	No
State	xsd:string	Two-character State/Region code specific to Country	2	No
PostalCode	xsd:string	Postal Code	30	No
FirstName	xsd:string	Card Holder First Name	50	Yes
LastName	xsd:string	Card Holder Last Name	50	Yes
DBA	xsd:string	WU specific	50	No
DBACity	xsd:string	WU specific	50	No
MerchantContactInfo	xsd:string	Merchant Contact Info	50	No

Response Message

xsi:type="VerifyCardResponse"

Element	Type	Additional Information
OrderNumber	xsd:string	MTCN code or Reference Memo
ResponseReasonCode	xsd:string	Response Reason Code (Example: 7702 – Invalid Card Number)
ResponseDate	xsd:string	Response Date (Format : DDMMYY)
AuthorizationCode	xsd:string	Unique Response code
AVSResponseCode	xsd:string	Address Verification Service (Refer document)
CSVResponseCode	xsd:string	CVV2 Verification Service (Refer document)
AccountNumber	xsd:string	16 digit customer Primary Account Number
ExpirationDate	xsd:string	Format: MMYE Example – [0117]
Mop	xsd:string	VI – Visa , MA - MasterCard
RPAAdviceCode	xsd:string	WU specific
CAVVResponseCode	xsd:string	WU specific
Amount	xsd:dec	format: nnnnnnnnnnnnnnnnnn.nn

2.1.11 PINCheckRequest**Description**

This operation is used to check if the PIN is a match. Access to this service requires approval by the Issuer.

Request Message

xsi:type="PINCheckRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes
PIN	xsd:string			Yes

Response Message

xsi:type="PINCheckResponse"

Element	Type	Additional Information
Success	xsd:string	"true" if the information matches an existing customer. "false" otherwise.

2.1.12 PINChangeRequest

Description

This operation changes the PIN on a card. Access to this service requires approval by the Issuer.

Request Message

xsi:type="PINChangeRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	Customer ID of the card	10	Yes
PIN	xsd:string	New PIN to assign to card	4	Yes

Response Message

xsi:type="PINChangeResponse"

Element	Type	Additional Information
Success	xsd:string	"true" if PIN was successfully set, "false" otherwise.

2.1.13 ValidateLast4Request

Description

This operation is used to Validate if the customer ID and the provided last 4 digit of the PAN are associated to the same account.

Request Message

xsi:type="ValidateLast4Request"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes
Last4Digits	xds:string			Yes

Response Message

xsi:type="ValidateLast4Response"

Element	Type	Additional Information
Valid	xsd:string	"true" if the information matches an existing customer. "false" otherwise.

2.1.14 FundTransferRequest**Description**

This operation is used to transfer funds to / from a card holder's prepaid account to / from another entity.

Request Message

xsi:type="FundTransferRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes
Last4Digits	xsd:string	Last four digits of customer's 16 digit PAN	4	Yes
MobilePhoneNumber	xsd:string	Required or Optional: Configurable based upon client's requirements. If provided, the mobile phone number must match the mobile phone number in the registration information for the customer.	18	Configurable
TransferAmount	xsd:decimal	format: nnnnnnnnnnnnnnnn.nn	20	Yes
CurrencyCode	xsd:string	ISO 4217 Currency Code	3	Yes
TransferType	xsd:string	Valid values include: "CardToWallet", "CardToBank", "WalletToCard", "BankToCard", "Payroll". Quotes are not to be included	12	Yes
ReferenceMemo	xsd:string	Reference Information viewable by customer / administrators	100	Yes

Response Message

xsi:type="FundTransferResponse"

Element	Type	Additional Information
TransactionID	xsd:int	Transfer Transaction Number

2.1.15 FundTransferCardToCardRequest**Description**

This operation is used to transfer funds from one card holder's prepaid account to another card holder's prepaid account.

Request Message

xsi:type="FundTransferCardToCardRequest"

Element	Type	Additional Information	Max Len	Required?
PaymentType	xsd:string	Valid values include: "Top Up", "Bill Pay", and "C2C". Quotes are not to be included	10	Yes
FromCustomerID	xsd:int	No zero padding	10	Yes
TransferAmount	xsd:decimal	format: nnnnnnnnnnnnnnnn.nn	20	Yes
CurrencyCode	xsd:string	ISO 4217 Currency Code	3	Yes
ToCustomerID	xsd:int	No zero padding	10	Yes
Last4Digits	xsd:string	Last four digits of receiving customer's 16 digit PAN	4	Yes
FromCardReferenceMemo	xsd:string	Reference Information viewable by customer / administrators	100	No
ToCardReferenceMemo	xsd:string	Reference Information viewable by customer / administrators	100	No

Response Message

xsi:type="FundTransferCardToCardResponse"

Element	Type	Additional Information
TransactionID	xsd:int	Transfer Transaction Number

2.1.16 FundTransferCardToCardRequestMobile**Description**

This operation is used to transfer funds from one card holder's prepaid account to another card holder's prepaid account. The mobile number for the "from" card holder must match the MobilePhoneNumber element for the transfer to succeed.

Request Message

xsi:type="FundTransferCardToCardRequestMobile"

Element	Type	Additional Information	Max Len	Required?
PaymentType	xsd:string	Valid values include: "Top Up", "Bill Pay", and "C2C". Quotes are not to be included	10	Yes
FromCustomerID	xsd:int	No zero padding	10	Yes
TransferAmount	xsd:decimal	format: nnnnnnnnnnnnnnnnn.nn	20	Yes
CurrencyCode	xsd:string	ISO 4217 Currency Code	3	Yes
ToCustomerID	xsd:int	No zero padding	10	Yes
Last4Digits	xsd:string	Last four digits of receiving customer's 16 digit PAN	4	Yes
MobilePhoneNumber	xsd:string	Mobile Phone Number associated with FromCustomerID's account	18	Yes
FromCardReferenceMemo	xsd:string	Reference Information viewable by customer / administrators	100	No
ToCardReferenceMemo	xsd:string	Reference Information viewable by customer / administrators	100	No

Response Message

xsi:type="FundTransferCardToCardResponseMobile"

Element	Type	Additional Information
TransactionID	xsd:int	Transfer Transaction Number

2.1.17 FundTransferByEmployeeIDRequest**Description**

This operation is used to transfer funds from a distribution account to a card holder's prepaid account. The card holder account is identified by the combination of Employee ID and Company ID.

Request Message

xsi:type="FundTransferByEmployeeIDRequest"

Element	Type	Additional Information	Max Len	Required?
PaymentType	xsd:string	Value provided by GTP	10	Yes
TransferAmount	xsd:decimal	format: nnnnnnnnnnnnnnnn.nn	20	Yes
CurrencyCode	xsd:string	ISO 4217 Currency Code	3	Yes
EmployeeID	xsd:int	No zero padding	10	Yes
CompanyID	xsd:int	No zero padding. Provided by GTP.	10	Yes
SubCompanyID	xsd:int	No zero padding. Provided by GTP.	10	No
ReferenceMemo	xsd:string	Reference Information viewable by customer / administrators	100	No

Response Message

xsi:type="FundTransferByEmployeeIDResponse"

Element	Type	Additional Information
TransactionID	xsd:int	Transfer Transaction Number

2.1.18 FundTransferReverseRequest**Description**

This operation is used to reverse a funds transfer transaction and is limited to reversal within 10 seconds of the initial fund transfer request.

Request Message

xsi:type="2.1.7 FundTransferReverseRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes
TransactionID	xsd:int	Transaction Number to be reversed	15	Yes
ReferenceMemo	xsd:string	Alphanumeric description of reversal reason	100	Yes

Response Message

xsi:type=" FundTransferReverseResponse"

Element	Type	Additional Information
TransactionID	xsd:int	Transfer Reversal Transaction Number

2.1.19 FundTransferReverseByEmployeeIDRequest**Description**

This operation is used to reverse a funds transfer transaction.

Request Message

xsi:type=" FundTransferReverseByEmployeeIDRequest"

Element	Type	Additional Information	Max Len	Required?
EmployeeID	xsd:string	No zero padding	10	Yes
CompanyID	xsd:int	No zero padding. Provided by GTP	10	Yes
TransactionID	xsd:int	Transaction Number to be reversed	15	Yes
ReferenceMemo	xsd:string	Alphanumeric description of reversal reason	100	Yes

Response Message

xsi:type=" FundTransferReverseByEmployeeIDResponse"

Element	Type	Additional Information
EmployeeID	xsd:string	No zero padding
TransactionID	xsd:int	Transfer Reversal Transaction Number

2.1.20 VerifyTransferRequest**Description**

This operation is used to verify transfers.

Request Message

xsi:type=" VerifyTransferRequest"

Element	Type	Additional Information	Max Len	Required?
ToCustomerID	xsd:int	No zero padding	10	Yes
FromCustomerID	xsd:int	No zero padding	10	Yes
TransactionID	xsd:int	Transaction Number to be verified	15	Yes

Response Message

xsi:type="VerifyTransferResponse"

Element	Type	Additional Information
TransferAmount	xsd:string	
TransactionID	xsd:int	Transfer Transaction Number

2.1.21 FundTransferPanReverseRequest**Description**

This operation is used to reverse a funds transfer transaction. Must support message level encryption and maintain compliance with PCI DSS to access.

Request Message

xsi:type="FundTransferPanReverseRequest"

Element	Type	Additional Information	Max Len	Required?
PTTID	xsd:int	GTP Transaction Number to be reversed	15	Yes
OrderNumber	xsd:string	MTCN code or Reference Memo	50	Yes
Amount	xsd:decimal	format: nnnnnnnnnnnnnnnnn.nn	20	Yes
CurrencyID	xsd:string	Currency Code (Example 840)	3	Yes
MerchantID	xsd:string	Merchant ID	25	No
UserName	xsd:string	User Name	25	No
UserPassword	xsd:string	User Password	25	No
TransactionType	xsd:string	Transaction type	2	No
Timeout	xsd:string	WU Specific	4	No
RequestType	xsd:string	Transaction type [Value 'R' – Reversal' & 'C' - Credit]	1	Yes
StoreID	xsd:string	Store ID	25	No
MOP	xsd:string	VI – Visa or MA - MasterCard	2	Yes
TRXSource	xsd:string	Transaction Source	100	No

Response Message

xsi:type="FundTransferPanReverseResponse"

Element	Type	Additional Information
PTTID	xsd:int	GTP Transaction Number to be reversed
OrderNumber	xsd:string	MTCN code or Reference Memo
Amount	xsd:decimal	format: nnnnnnnnnnnnnnnnn.nn

CurrencyID	xsd:string	Currency Code (Example 840)
MerchantID	xsd:string	Merchant ID
TransactionType	xsd:string	Transaction type
RequestType	xsd:string	Transaction type [Value 'R' – Refund / 'C' - Cancel]
StoreID	xsd:string	Store ID
MOP	xsd:string	VI – Visa or MA - MasterCard
MessageCode	xsd:int	Return code
Message	xsd:string	Return message
UTC	xsd:string	Format: YYYYMMDDhhmmss

2.1.22 TransactionActivityRequest

Description

This operation is used to get transaction history activity for a given customer over a period.

Request Message

xsi:type="TransactionActivityRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes
StartDate	xsd:string	format: DD-MMM-YYYY (17-JAN-1985)	11	Yes
EndDate	xsd:string	format: DD-MMM-YYYY (17-JAN-1985)	11	Yes
NumberOfTrans	xsd:int	Max Transactions to return. Defaults to 100	3	No
ExtendedData	Xsd:int	Y or N		No

Response Message

Note: This operation may return multiple TransactionActivityResponse elements.

xsi:type="TransactionActivityResponse"

Element	Type	Additional Information
TransactionID	xsd:int	
TransactionDate	xsd:string	format: DD-MMM-YYYY (17-JAN-1985)
TransactionTime	xsd:string	24 hour time: Format: HH:MM:SS (17:38:55)
BaseAmount	xsd:decimal	format: nnnnnnnnnnnnnnnnn.nn
Fee	xsd:decimal	format: nnnnnnnnnnnnnnnnn.nn
TotalAmount	xsd:decimal	format: nnnnnnnnnnnnnnnnn.nn

RunningBalance	xsd:decimal	format: nnnnnnnnnnnnnnnn.nn
TransactionDesc	xsd:string	
ReferenceInformation	xsd:string	
Mini Statement	Xsd:string	MerchantCountry TerminalID AcquirerBin MerchantName MerchantID MccCode MerchantCity PosEntryCode CardholderIdMethod ExternalReferenceNumber CurrencyMarkupPercent BaseIIStatus TransCurrencyCode CashbackTransAmount CashbackBillingAmount PartialTransAmount PartialBillingAmount TransactionActivityList

2.1.23 PingRequest

Description

This operation is used to test connectivity to the GTP Partner API Web Service.

Request Message

xsi:type="PingRequest"

Element	Type	Additional Information	Required?
PingID	xsd:int	Any integer value	Yes

Response Message

xsi:type="PingResponse"

Element	Type	Additional Information
PingID	xsd:int	Value returned is PingID + 1

2.1.24 ValidateRequest

Description

This operation is used to validate customer account information.

Request Message

xsi:type="ValidateRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	Customer ID. No zero padding.	10 digits	Yes
BirthDate	xsd:string	format: DD-MMM-YYYY (17-JAN-1985)	11	Yes
MobilePhoneNumber	xsd:string		18	Yes

Response Message

xsi:type="ValidateResponse"

Element	Type	Additional Information
Valid	xsd:string	"true" if the information matches an existing customer. "false" otherwise.

2.1.25 DeactivateCardRequest

Description

This operation changes a card status to 'inactive'; suspending authorizations on the account.

Request Message

xsi:type="DeactivateCardRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes
Last4Digits	xsd:string		4	Yes
MobilePhoneNumber	xsd:string		18	Yes

Response Message

xsi:type="DeactivateCardResponse"

Element	Type	Additional Information
Success	xsd:string	"true" if card status successfully changed to inactive, "false" otherwise.

2.1.26 ReactivateCardRequest**Description**

This operation changes a card status to 'active'; resuming authorizations on the account.

Request Message

xsi:type="ReactivateCardRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes
Last4Digits	xsd:string		4	Yes
MobilePhoneNumber	xsd:string		18	Yes

Response Message

xsi:type="ReactivateCardResponse"

Element	Type	Additional Information
Success	xsd:string	"true" if card deactivated, "false" otherwise.

2.1.27 ReplaceCardRequest**Description**

Replaces the card for the account holder; *not suggested for Virtual accounts*. Access to this service requires approval by the Issuer.

Request Message

xsi:type="ReplaceCardRequest"

Element	Type	Additional Information	Max Len	Required?
ReplaceDueToFraud	xsd:int	Valid values: "Y" or "N". If value is "Y", cardholder portal login information is NOT moved to new card.	1	Yes
ChargeFee	xsd:string	Valid values: "Y" or "N". If a fee exists for card replacement, setting this value to "Y" will cause the fee to be charged.	1	Yes
CustomerID	xsd:string	Customer ID of the card to be replaced	10	Yes
Last4Digits	xsd:string	Last four digits of the PAN of the card to be replaced.	4	Yes

ReplacementCardType	xsd:string	Valid values: 'Physical' or 'Virtual'. If 'Virtual' is specified, a new virtual card will be created to replace the existing card. If 'Physical' is specified, the NewCustomerID field must contain the customer ID of an unregistered instant issue card which will replace the existing card.	8	Yes
NewCustomerID	xsd:string	Required if ReplacementCardType is 'Physical'	10	Conditional

Response Message

xsi:type="ReplaceCardResponse"

Element	Type	Additional Information
RegistrationCustomerID	xsd:string	Customer ID of replacement card.
RegistrationLast4Digits	xsd:int	Last four digits of the PAN of the replacement card.

2.1.28 CustomerSearchRequest**Description**

This operation is used to find a customer by mobile phone number. If multiple cards are registered with the same mobile phone number, multiple records will be returned.

Request Message

xsi:type="CustomerSearchRequest"

Element	Type	Additional Information	Max Len	Required?
PhoneNumber	xsd:int	Digits only. Minimum length: 10	18	Yes

Response Message

xsi:type="CustomerSearchResponse"

Element	Type	Additional Information
CustomerId	xsd:int	Client ID on the card
Bin	xsd:string	6 digit BIN of card
LastFourDigits	xsd:string	Last four digits of the PAN
FirstName	xsd:string	Card holder first name
LastName	xsd:string	Card holder last name
Status	xsd:string	Card Status

2.1.29 BankInfoRequest

Description

This operation returns the issuing bank and currency associated with the customer id of the card account.

Request Message

xsi:type="BankInfoRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes

Response Message

xsi:type="BankInfoResponse"

Element	Type	Additional Information
IssuingBankID	xsd:string	3-4 character bank identifier
CurrencyCode	xsd:string	3 character ISO 4217 alphabetic currency code

2.1.30 StatusRequest

Description

Given an API's RequestID, this operation returns the status of the API call.

Note: The RequestID is provided in the header of the request. It must be unique for each API request for the StatusRequest API to work properly.

Request Message

xsi:type="StatusRequest"

Element	Type	Additional Information	Max Len	Required?
RequestID	xsd:int	RequestID of the API call that is being queried.	10	Yes

Response Message

xsi:type="StatusResponse"

Element	Type	Additional Information
Success	xsd:string	1 character 'Y' for successful, 'N' for unsuccessful.
TransactionID	xsd:int	If applicable, this field contains the transaction ID corresponding to the API request.
Method	xsd:string	Name of the API call.
Message	xsd:string	Informative message such as "Transaction Complete", "Request Not Found".
DateTime	xsd:string	Date / Time the API request was received.

2.1.31 GetCustomerIdOrBvnRequest**Description**

This API will retrieve card information associated with a BVN or will retrieve a BVN based upon a Customer ID.

Either a BVN or Customer ID must be provided in the request body.

xsi:type="GetCustomerIdOrBvnRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerId	xsd:int		10	Conditional
Bvn	xsd:string	Bank Verification Number	15	Conditional

Response

xsi:type="GetCustomerInfoFromBvnResponse"

***Please note this is for Nigerian Issuance Only

If no data was found meeting the criteria in the request, the response will be empty for both types of requests.

If Bvn was provided, the API will return a **GetCustomerInfoFromBvnResponse** containing zero, one, or more entries as such:

Element	Type	Additional Information
CardStatus	xsd:string	"AC" for an Active Card, "PA" for a Pre Active Card
CustomerId	xsd:int	

Response

xsi:type="GetCustomerInfoFromCustomerIdResponse"

If CustomerID was provided, the API will return a **GetBvnFromCustomerIdResponse** containing zero or one entry as such:

Element	Type	Additional Information
Bvn	xsd:string	

2.1.32 UpdateBvnRequest

Description

This operation updates a BVN associated with a card.

Request Message

xsi:type="UpdateBvnRequest"

Element	Type	Additional Information	Max Len	Required?
CustomerID	xsd:int	No zero padding	10	Yes
Bvn	xsd:string	11 digit numeric BVN	11	Yes

Response Message

xsi:type="UpdateBvnResponse"

Element	Type	Additional Information
Success	xsd:string	"true" if card deactivated, "false" otherwise.

2.2 ENDPOINTS

The service is available on one endpoint. The endpoint to which the SOAP messages are HTTP POST'ed is constructed as follows:

```
https://gtpportal.com/GTPServices/PartnerAPIWebService.svc?wsdl
```

2.3 SOAP REQUEST MESSAGE ELEMENTS

/soapenv:Envelope

The SOAP envelope for the SOAP request is the container of a single SOAP message that has the request instructions and request parameter data:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
                  xmlns:gtp="http://gtplimited.com/">
  <soapenv:Header ...
  <soapenv:Body ...
</soapenv:Envelope>
```

Please note that the actual prefixes used are not critical and can be changed if desired.

/soapenv:Envelope/soapenv:Header

Next is the SOAP header which contains a standard RequestHeader. The request header contains information that is sent with each request.

```
<soapenv:Header>
  <gtp:RequestHeader ...
</gtp:RequestHeader>
</soapenv:Header>
```

/soapenv:Envelope/soapenv:Header/RequestHeader

This contains the Security Token that was provided by GTP to registered clients and partners. If this is missing from the SOAP Header, the request will not be processed by the service.

The schema for this element is defined in the WSDL.

```
<gtp:RequestHeader>
  <gtp:SecurityToken>SampleToken</gtp:SecurityToken>
  <gtp:RequestID>SampleRequestID</gtp:RequestID>
</gtp:RequestHeader>
```

Request Header

type="BaseRequestHeader"

Element	Type	Additional Information	Required?
SecurityToken	string	Security Token assigned to client / partner by GTP.	Yes
RequestID	string	Client / Partner generated Request ID. If provided, this value is returned in the response.	No

NOTE: Each SOAP request for the operations of the *PartnerAPI Web Service* must have the **RequestHeader** element in the *SOAP Header*.

/soapenv:Envelope/soapenv:Body

The SOAP Body contains the data that is required by the operation.

```
<soapenv:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <gtp:BaseRequest>
    <gtp:RequestData xsi:type="BalanceRequest" xmlns="http://gtplimited.com/">
      <CustomerID>11136778</CustomerID>
    </gtp:RequestData>
  </gtp:BaseRequest>
</soapenv:Body>
```

For this example, the message for the **BalanceRequest** operation is provided with the **BaseRequest** element, which contains the **RequestData** with a type of **BalanceRequest**. The structure of the **BalanceRequest** complexType is defined in the WSDL.

2.4 SOAP RESPONSE MESSAGE ELEMENTS

/soap:Envelope

The SOAP envelope for the SOAP response is the container of a single SOAP message that has the response details and response data.

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header ...
  <s:Body ...
</s:Envelope>
```

Please note that the actual prefixes used are not critical and can be changed if desired.

/soap:Envelope/soap:Header

Next is the SOAP header which contains a standard ResponseHeader. The response header contains information that is returned with each response.

```
<s:Header>
  <h:ResponseHeader ...
</h:ResponseHeader>
</s:Header>
```

/soap:Envelope/soap:Header/ResponseHeader

This contains standard response information returned in every response.

The schema for this element is defined in the WSDL.

```
<gtp:ResponseHeader>
  <ResponseID>634746740054860354</ResponseID>
  <RequestID>223423423</RequestID>
  <StatusCode>0</StatusCode>
  <StatusMessage>SUCCESS</StatusMessage>
</gtp:ResponseHeader>
```

The above example shows the result of a successful operation.

Response Header

type="BaseResponseHeader"

Element	Type	Additional Information
ResponseID	numeric	Unique Response ID generated by GTP
RequestID	string	If a Request ID was provided in the initial request, it is returned in this value.
StatusCode	int	0 = Success. Anything else indicates an error.
StatusMessage	string	"SUCCESS" or "Error"

/soap:Envelope/soap:Body – Successful Operation

Lastly, the SOAP Body contains the response data that contains the result of the operation.

```
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BaseResponse xmlns="http://gtplimited.com/">
```

```
<ResponseData xsi:type="BalanceResponse">
  <Balance>47567918</Balance>
  <CurrencyCode>XOF</CurrencyCode>
</ResponseData>
</BaseResponse>
</s:Body>
```

For this example, the response message from the **BalanceRequest** operation is provided with the **BaseResponse** element, which contains the **ResponseData** with a type of **BalanceResponse**. The structure of the **BalanceResponse** complexType is defined in the WSDL.

/soap:Envelope/soap:Body – Failed Operation

If an operation fails, a standard error response is returned in the SOAP Body.

```
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BaseResponse xmlns="http://gtplimited.com/">
    <ResponseData xsi:type="ErrorResponse">
      <ErrorNumber>7002</ErrorNumber>
      <ErrorMessage>Invalid Customer ID</ErrorMessage>
    </ResponseData>
  </BaseResponse>
</s:Body>
```

This is very similar to the successful response except that the **ResponseData** will be of type **ErrorResponse**.

Error Response

type=" ErrorResponse"

Element	Type	Additional Information
ErrorNumber	numeric	GTP assigned error number
ErrorMessage	string	Description of error

3 EXAMPLES

3.1 BALANCE REQUEST

The following SOAP envelope shows data sent for a successful balance request operation for customer 36778:

```

<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:gtp="http://gtplimited.com/"
<soapenv:Header>
  <gtp:RequestHeader>
    <gtp:SecurityToken>SampleSecurityToken</gtp:SecurityToken>
    <gtp:RequestID>2423487</gtp:RequestID>
  </gtp:RequestHeader>
</soapenv:Header>
<soapenv:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <gtp:BaseRequest>
    <gtp:RequestData xsi:type="BalanceRequest" xmlns="http://gtplimited.com/">
      <CustomerID>36778</CustomerID>
    </gtp:RequestData>
  </gtp:BaseRequest>
</soapenv:Body>
</soapenv:Envelope>

```

3.2 BALANCE RESPONSE (SUCCESS)

The following SOAP envelope shows data returned from a successful balance request operation for customer 36778:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"
<s:Header>
  <h:ResponseHeader xmlns:h="http://gtplimited.com/"
    xmlns="http://gtplimited.com/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <ResponseID>634746731064433963</ResponseID>
    <RequestID>2423487</RequestID>
    <StatusCode>0</StatusCode>
    <StatusMessage>SUCCESS</StatusMessage>
  </h:ResponseHeader>
</s:Header>

```

```

<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <BaseResponse xmlns="http://gtplimited.com/">
    <ResponseData xsi:type="BalanceResponse">
      <Balance>47567918</Balance>
      <CurrencyCode>XOF</CurrencyCode>
    </ResponseData>
  </BaseResponse>
</s:Body>
</s:Envelope>

```

3.3 BALANCE RESPONSE (FAILURE)

The following SOAP envelope shows data returned from a failed balance request operation:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ResponseHeader xmlns:h="http://gtplimited.com/"
      xmlns="http://gtplimited.com/"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <ResponseID>634747449293094906</ResponseID>
      <RequestID>2423487</RequestID>
      <StatusCode>7002</StatusCode>
      <StatusMessage>Error</StatusMessage>
    </h:ResponseHeader>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <BaseResponse xmlns="http://gtplimited.com/">
      <ResponseData xsi:type="ErrorResponse">
        <ErrorNumber>7002</ErrorNumber>
        <ErrorMessage>Invalid Customer ID</ErrorMessage>
      </ResponseData>
    </BaseResponse>
  </s:Body>
</s:Envelope>

```

```
</BaseResponse>

</s:Body>

</s:Envelope>
```

3.4 REPLACECARD REQUEST

The following SOAP envelope shows data sent for a successful replace card request operation for customer 2423487:

```
<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:gtp="http://gtplimited.com/">
  <soapenv:Header>
    <gtp:RequestHeader>
      <gtp:SecurityToken>SampleSecurityToken</gtp:SecurityToken>
      <gtp:RequestID>2423487</gtp:RequestID>
    </gtp:RequestHeader>
  </soapenv:Header>
  <soapenv:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <gtp:BaseRequest>
      <gtp:RequestData xsi:type="BalanceRequest" xmlns="http://gtplimited.com/">
        <CustomerID>36778</CustomerID>
      </gtp:RequestData>
    </gtp:BaseRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

3.5 REPLACECARD RESPONSE (SUCCESS)

The following SOAP envelope shows data returned from a successful replace card request operation for customer 2423487:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ResponseHeader xmlns:h="http://gtplimited.com/"
      xmlns="http://gtplimited.com/"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <ResponseID>634746731064433963</ResponseID>
      <RequestID>2423487</RequestID>
      <StatusCode>0</StatusCode>
      <StatusMessage>SUCCESS</StatusMessage>
    </h:ResponseHeader>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <BaseResponse xmlns="http://gtplimited.com/">
      <ResponseData xsi:type="BalanceResponse">
        <Balance>47567918</Balance>
        <CurrencyCode>XOF</CurrencyCode>
      </ResponseData>
    </BaseResponse>
  </s:Body>
</s:Envelope>
```

3.6 TRANSACTION ACTIVITY REQUEST

The following SOAP envelope shows data sent for TransactionActivityRequest API. If the ExtendedData option is included, it must have a Value of "Y" or "N". If the value is "N", or ExtendedData is not included in the request, the user will see no change to the results.

```
<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ser="http://gtplimited.com/" xmlns:gtp="http://gtplimited.com/">
  <soapenv:Header>
```

```

    <ser:RequestHeader>
      <ser:SecurityToken>apitesttoken</ser:SecurityToken>
      <ser:RequestID>201</ser:RequestID>
    </ser:RequestHeader>
  </soapenv:Header>
  <soapenv:Body xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance>
    <gtp:BaseRequest>
      <ser:RequestData xsi:type="TransactionActivityRequest"
xmlns=http://gtplimited.com/>
        <CustomerID>479045</CustomerID>
        <StartDate>01-DEC-2019</StartDate>
        <EndDate>31-DEC-2020</EndDate>
        <NumberOfTrans>5</NumberOfTrans>
        <ExtendedData>Y</ExtendedData>
      </ser:RequestData>
    </gtp:BaseRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

3.7 TRANSACTION ACTIVITY RESPONSE

If the ExtendedData option is included, it must have a Value of “Y” or “N”. If the value is “N”, or ExtendedData is not included in the request, the user will see no change to the results

Here is a sample of the request with the flag turned on:

```

<TransactionActivityList>
  <TransactionID>621488809</TransactionID>
  <TransactionDate>14-DEC-2020</TransactionDate>
  <TransactionTime>09:27:24</TransactionTime>
  <BaseAmount>0</BaseAmount>
  <Fee>-2</Fee>
  <TotalAmount>-2</TotalAmount>
  <RunningBalance>986019494</RunningBalance>
  <TransactionDesc>Mini Statement</TransactionDesc>
  <ReferenceInformation>SMS Mini
Statement</ReferenceInformation>
  <MerchantCountry/>
  <TerminalID/>
  <AcquirerBin/>
  <MerchantName/>
  <MerchantID/>
  <MccCode/>
  <MerchantCity/>
  <PosEntryCode/>
  <CardholderIdMethod/>
  <ExternalReferenceNumber/>
  <CurrencyMarkupPercent>0</CurrencyMarkupPercent>
  <BaseIIStatus/>
  <TransCurrencyCode/>
  <CashbackTransAmount>1.456789</CashbackTransAmount>

```

```

        <CashbackBillingAmount>1.23</CashbackBillingAmount>
        <PartialTransAmount>1.20</PartialTransAmount>
        <PartialBillingAmount>1</PartialBillingAmount>
    </TransactionActivityList>

```

3.8 VIRTUAL REGISTRATION REQUEST

The following SOAP envelope shows data sent for the VirtualRegistrationRequest.

```

<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ser="http://gtplimited.com/"
  xmlns:gtp="http://gtplimited.com/">
  <soapenv:Header>
    <ser:RequestHeader>
      <ser:SecurityToken>token</ser:SecurityToken>
      <ser:RequestID>202</ser:RequestID>
    </ser:RequestHeader>
  </soapenv:Header>
  <soapenv:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <gtp:BaseRequest>
      <ser:RequestData xsi:type="VirtualRegistrationRequest"
        xmlns="http://gtplimited.com/">
        <FirstName>Mark</FirstName>
        <LastName>Jackson</LastName>
        <Address1>Kaunda Square Stage 7</Address1>
        <City>Lusaka</City>
        <Country>US</Country>
        <PostalCode>12345</PostalCode>
        <StateRegion>OK</StateRegion>
        <BirthDate>17-JAN-1985</BirthDate>
        <IDType>2</IDType>
        <IDValue>27044668122</IDValue>
        <MobilePhoneNumber>234188533854</MobilePhoneNumber>
        <CustomerSource>OTHER</CustomerSource>
        <SubCompany>31732</SubCompany>
        <EmailAddress>person@gmail.com</EmailAddress>
        <ReferredBy>31732</ReferredBy>
        <ExpirationDate>JAN-2020</ExpirationDate>
        <NotificationMethod>NONE</NotificationMethod>
      </ser:RequestData>
    </gtp:BaseRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

3.9 VIRTUAL REGISTRATION RESPONSE

The following SOAP envelope shows data sent for VirtualRegistrationRequest.


```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ResponseHeader xmlns:h="http://gtplimited.com/"
xmlns="http://gtplimited.com/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <ResponseID>226862410</ResponseID>
      <RequestID>202</RequestID>
      <StatusCode>0</StatusCode>
      <StatusMessage>SUCCESS</StatusMessage>
    </h:ResponseHeader>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <BaseResponse xmlns="http://gtplimited.com/">
      <ResponseData xsi:type="RegistrationResponse">
        <RegistrationCustomerID>10186433</RegistrationCustomerID>
        <RegistrationLast4Digits>0168</RegistrationLast4Digits>
      </ResponseData>
    </BaseResponse>
  </s:Body>
</s:Envelope>
```

4 TRANSACTION NOTIFICATION WEB SERVICE

The above TransactionNotificationSpec is the specification for subscribing to GTP's Transaction Notification web service. This file can be viewed by saving the file locally and importing at the following link: <https://editor.swagger.io/>.

NOTE: Within TransactionNotificationRequest schema, the following fields will not be provided initially: merchantCity, merchantTerminal, merchantCountry, and denialReason.

Prerequisites to support delivery of transaction detail:

1. Program Manager must create a web service that conforms to the Open API specification provided.
2. Web service must accept requests over https utilizing TLS 1.2 or better.
3. Web service must enforce basic authentication utilizing a user ID and password; to be provided to GTP.

Please whitelist the following IP as necessary for this access: 205.220.248.10. Alternately, you may wish to set up a VPN with GTP. For this connection request, email provisioning@gtplimited.com.

4.1 TRANSACTION NOTIFICATION ENDPOINT TESTING.

To test this functionality, perform the following curl steps:

1. Save the following text to a file named "webhook.json":

```
{
  "requestId": "129267654",
  "customerId": "479045",
  "transactionId": "1234567890",
  "lastFourDigits": "1234",
  "transactionDate": "01-APR-2021",
  "transactionTime": "04:51",
  "transactionName": "POS",
  "creditOrDebit": "C",
  "currencyCode": "XOF",
  "baseAmount": "12",
  "fees": "1",
  "totalAmount": "13",
  "runningBalance": "123",
  "reference": "Here is the reference information",
  "issuingBankIdAlias": "BGFI",
  "firstName": "Larry",
  "lastName": "Sands",
  "subCompanyName": "Terrific SubCompany",
  "merchantCity": "New York City",
  "merchantTerminal": "DFVC97PR",
  "merchantCountry": "US",
  "denialReason": "Velocity Limit Exceeded"
}
```

2. For a windows environment, perform the following command:

```
curl -v -d "@c:\folder_where_file_was_saved\webhook.json" -X POST  
https://yourserver/v1/transaction -H "accept: text/plain" -H "Content-  
Type: application/json-patch+json" -u BasicAuthenticationUserName:  
BasicAuthenticationPassword
```

3. For a linux / unix environment perform the equivalent command as above.
4. Your web service should accept and process the JSON data

5 ERROR CODES

* The ErrorMessage Element in the ErrorResponse will contain additional information for this error.

General Errors	Error Code	Error Description
	7001	Initial setup error *
	7002	IP Address Restricted
	7003	Invalid Security Token
	7004	Access to API not allowed
	7005	Invalid / Unknown Request Schema *
	7006	Other unspecified exception *
Balance Check Errors	Error Code	Error Description
	7100	General setup error *
	7101	Schema Validation Error *
	7102	Invalid Customer ID
	7103	Card Access Not Allowed
Registration Errors	Error Code	Error Description
	7200	General setup error *
	7201	Schema Validation Error *
	7202	Invalid data / data relationships *
	7203	Card Access Not Allowed
	7210	Operation Failed on application server *
Funds Transfer Errors	Error Code	Error Description
	7300	General setup error *
	7301	Schema Validation Error *
	7302	Invalid Customer ID/Employee ID
	7303	Invalid "From" Customer ID
	7304	Invalid "To" Customer ID
	7305	Currency code mismatch
	7306	Customer ID / Mobile Phone Number mismatch
	7307	Customer ID / Last 4 digits mismatch
	7308	Payment Type / Transfer Type not enabled for Partner
	7309	Invalid Transaction ID
	7310	Operation Failed on application server *
	7311	Amount must be greater than zero
	7312	Currency Code does not match with the card base currency
	7313	Unable to retrieve payment type of the transaction
	7314	Card has been replaced
	7315	Insufficient card balance

	7316	Invalid Transaction ID
	7317	Unable to retrieve customer information
	7318	Unable to map Card holder to the supplied transaction
	7319	Transaction ID does not match the supplied MTCN code
	7320	Cannot reverse transaction because it exceeded timeout limit
	7321	Transaction exists for the provided employee id and load amount in the past 12 hours
	7322	Reversal amount does not match the original transaction amount
	7360	Operation Failed on application server *
Transaction Activity Errors	Error Code	Error Description
	7400	General setup error *
	7401	Schema Validation Error *
	7402	Invalid Customer ID
	7410	Operation Failed constructing response *
Ping Errors	Error Code	Error Description
	7510	All Failures *
Validate Errors	Error Code	Error Description
	7150	General setup error *
	7151	Schema Validation Error *
	7152	Invalid Customer ID
	7153	Card Access Not Allowed
StatusRequest Errors	Error Code	Error Description
	7700	General setup error *
	7701	Schema Validation Error *
	7702	Invalid Card Number
	7703	Card access not allowed for the program
	7704	Bin access is not allowed
	7705	CVV2 code cannot be empty for non-repeat transaction.
	7706	Invalid CVV2 Code
	7707	Expiration date does not match
	7708	Failed to retrieve card holder information
	7709	First Name does not match
	7710	Last Name does not match
	7711	Card status is not active
	7712	Card has been replaced
	7720	Other unspecified exception *

Balance Check Errors	Error Code	Error Description
	7900	General setup error *
	7901	Schema Validation Error *
	7902	Invalid PAN
	7903	Card Access Not Allowed

6 DOCUMENT HISTORY

Version	Date	Author	Description of Change	Reviewed By	Approved By
1.0	04 Jun 2012	M Cabaniss	Initial Draft		
1.01	08 Aug 2012	M Cabaniss	Added Validate Request		
1.52	25 Oct 2012	M Cabaniss	Added more Funds Transfer documentation		
1.53	17 Apr 2013	M Cabaniss	Added InstantRegistrationRequest, CustomerDataRequest		
1.54	30 Jul 2013	M Cabaniss	New fields for FundTransferCardToCard		
1.55	15 Sep 2013	K Mitchell	Reformat		
1.56	6 Mar 2014	R Tamura	Add DeactivateCard documentation		
1.57	18 May 2015	R Ganesan	Added New Fund Transfer by Employee ID documentation		
1.58	20 May 2015	R Ganesan	Update Fund Transfer by Employee ID documentation		
1.62	31 Aug 2016	R Ganesan	Update Fund Transfer by Employee ID		
1.63	4 Oct 2016	M Cabaniss	BankInfoRequest, CustomerSearchRequest		
1.64	4 Oct 2016	M Cabaniss	Reformat headers in document		
1.65	24 Jan 2017	M Cabaniss	Clean up formatting		
1.7	18 Nov 2018	B Thetford	Add StatusRequest Reformatting		
2.0	02 Oct 2019	M King	Add Multiple Services including new Shipmoney	RGanesan	LBrinkley
2.1	18 Sept 2020	M King	Add new Services	MCabaniss	LBrinkley
2.2	30 April 2021	M King	Add new services Clean up formatting		
2.3	23 June 2021	L Brinkley	Add TransactionNotificationSpec		