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Partner Web Services

Integration Guide v1.0

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For the latest information,
visit our website at www.forte.net

Revision History

<i>Version</i>	<i>Date</i>	<i>Changes</i>
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Enum Reference

Overview

The following table lists the available enums in the partner web services.

Use the following test and production locations with the following web services:

Client

- **Sandbox:** <https://sandbox.paymentsgateway.net/WS/Client.svc>
- **Live:** <https://ws.paymentsgateway.net/Service/v1/Client.svc>

Locations

Transaction

- **Sandbox:** <https://sandbox.paymentsgateway.net/WS/Transaction.svc>
- **Live:** <https://ws.paymentsgateway.net/Service/v1/Transaction.svc>

Merchant

- **Sandbox:** <https://sandbox.paymentsgateway.net/WS/Merchant.svc>
- **Live:** <https://ws.paymentsgateway.net/Service/v1/Merchant.svc>

Available Enums

<i>Name</i>	<i>Values</i>
ApplicationStatus	<ul style="list-style-type: none">• Approved• Conditional• Declined• Deleted• Open• Pending• Processing• Recalled• Submitted
BusinessLocation	<ul style="list-style-type: none">• Office_Suite• Other• Private_Residence• Retail_StoreFront
DocCategory	<ul style="list-style-type: none">• Application• Approval_Information• Financial_Information• Merchant_Requests• Misc_Correspondence• Underwriting_Doc
DocStatus	<ul style="list-style-type: none">• Approved• Declined• Submitted

Continued

Enum Reference (cont'd)

Available Enums (cont'd)

<i>Name</i>	<i>Values</i>
DocSubCategory	<ul style="list-style-type: none"> • ACH • ACH_Application • Bank_Changes • Bank_Statements • BBB • CC • CC_Application • Closures • Compliance • Contact_Changes • DNS_Tools • Due_Diligence • Experian • Financials • Google • Guidestar • Hold_Day_Change • Increases • Lexis_Nexis • Misc_Requests • Reverse_Phone_Addr • Ripoff • SOS • Tax>Returns • Voided_Checks • Website_SSL • Zillow
MarketType	<ul style="list-style-type: none"> • Auto_Rental • Cash_Adv • E_Commerce • Emerging_Mkt • Lodging • MOTO • Other • P_Card • Publish_Sector • Restaurant • Retail • Supermarket
OwnershipType	<ul style="list-style-type: none"> • Closely_Held_Corp • Government_Federal_State • Limited_Liability_Corp • Other • Partnership_General_Limited • Publicly_Held_Corp • Sole_Proprietorship • Tax_Exempt_Non_Profit_Org

Continued

Enum Reference (cont'd)

Available Enums (cont'd)

<i>Name</i>	<i>Values</i>
ServiceType	<ul style="list-style-type: none">• AuthVerifi• CC• CCAV• CCEC• ECAV• ECAVCC• ECGateway• Echeck• GatewayOnly

Object Reference

Overview

The following tables lists the different objects available for partner web services.

Application

<i>Name</i>	<i>Type</i>	<i>Description</i>
ApplicationID	int	Unique ID for application
BankruptcyScore	int	Bankruptcy Score
BizBank	BusinessBank	Business Bank object contains Business Bank information
BizProfile	BusinessProfile	Business Profile object contains Business Profile information
CC	CCDetails	Credit Card object that contains CCDetails information
EC	ECheckDetails	eCheck object that contains ECheckDetails information
FeeID	string	Encrypted Fee ID. This is generated by going to the Partner Portal and adding a fee schedule. Use the parameter id. For example, given the link https://www.paymentsgateway.net/app/?id=qz%2f%2bxPM%3d&st=OuCkpXt49Fc%3d , the FeeID would be qz%2f%2bxPM%3d.
FicoScore	int	Range of 0–1000
InstantIDBusiness	int	Range of 0–1000
InstantIDConsumer	int	Range of 0–1000
Merchant	Merchant	Merchant object contains merchant information
OwnerProfile	OwnerProfile	OwnerProfile object contains ServiceType information
ServiceType	ServiceType	ServiceType object contains Simple Sign-Up information.
SimpleSignUpResult	SimpleSignUpResult	Status object contains ApplicationStatus information.
Prechecks	string	Application pre-check data

Application Document

<i>Name</i>	<i>Type</i>	<i>Description</i>
ApplicationID	int	Unique ID for application
Content	byte[]	Document content in a binary stream.
DocCategory	DocCategory	DocCategory object contains DocCategory information
DocSubCategory	DocSubCategory	DocSubCategory object contains DocSubCategory information.
DocumentID	int	Unique ID for the document.
FileName	string	The following file extensions are supported: <ul style="list-style-type: none"> • pdf • doc • docx • txt • png • gif • jpg
FileSize	int	Measure the size of the file, which must be less than 50 megabytes.
Status	DocStatus	Status object contains DocStatus information.

Continued

Object Reference (cont'd)

ApplicationDocumentStatus

<i>Name</i>	<i>Type</i>	<i>Description</i>
DocumentName	string	Name of document
Status	string	Status of document

The Authentication object hashes the APILoginID and the Secure Transaction Key.

Authentication

<i>Name</i>	<i>Type</i>	<i>Description</i>
APILoginID	string	Set in the Partner Portal
TSHash	string	HMACMD5 (APILoginID + " " + UTCTime, SecureTransactionKey)
UTCTime	string	UTC in ticks (since 01/01/0001 00:00:00)

BusinessBank

<i>Name</i>	<i>Type</i>	<i>Description</i>
AccountNumber	string	Account number of business
BankName	string	Bank Name of business
BillingAccountNumber	string	Billing Account Number
BillingBankName	string	Billing Bank Name
BillingContactName	string	Billing Contact Name
BillingPhone	string	Billing Phone Number
BillingTRNNumber	string	Billing TRN Number
ContactName	string	Billing Contact Name
Phone	string	Billing Phone
TRNNumber	string	Transit Routing Number

BusinessProfile

<i>Name</i>	<i>Type</i>	<i>Description</i>
ACHServicesIntended (deprecated)	string	This field will be deprecated. Use ProdSvcCollectedViaACH and ProdSvcDisburseViaACH.
AvgTicketAmount	double	
BizLocation	BusinessLocation	Supported values for this field include the following: 0 = Office Suite 1 = Retail_StoreFront 2 = Private_Residence 3 = Other
BizLocationOtherDesc	string	Required if BizLocation=Other
CardSwipPercent	double	
GoodsServicesSold	string	
MailTelOrderPercent	double	CardSwipPercent = ManualKeyPercent + ManualKeyPercent = 100%
ManualKeyPercent	double	

Continued

Object Reference (cont'd)

BusinessProfile (cont'd)

<i>Name</i>	<i>Type</i>	<i>Description</i>
MarketType	MarketType	Supported values include the following: 0 = Auto_Rental 1 = Cash_Adv 2 = E_Commerce 3 = Emerging_Mkt 4 = Lodging 5 = MOTO 6 = P_Card 7 = Public_Sector 8 = Restaurant 9 = Retail 10 = Supermarket 11 = Other
MarketTypeOtherDesc	string	Required if MarketType is Other (11).
MaxTicketAmount	double	
MerchandiseSvcSold	string	
MerchantsSaleSeasonal	bool	
MonthlyVolume	double	
RefundCancellationPolicy	string	
WantAcceptAmex	bool	

CCDetails

<i>Name</i>	<i>Type</i>	<i>Description</i>
AccountDataCompromiseDate	datetime	Required if ComplianceExperienceADC=true.
CardStorageAllApply	bool	
CardStorageMerchantAndProvider	bool	
CardStorageMerchantHeadquarter	bool	
CardStoreMerchantOnly	bool	
CardStorageOtherProvider	bool	
CardStorageServiceProvider	bool	
CHDS_ScanningVendorName	string	
ComplianceDate	datetime	
ComplianceExperienceADC	bool	
ComplianceFCN	bool	
ComplianceTTC	bool	
ComplianceUseOtherTransactionProcessor	bool	
ComplianceValidatedPCIDSS	bool	
LastScanDate	datetime	
OtherFeeDesc	string	
OtherTransactionProcessorName	string	
POSApplicationFromCompany	string	
SecurityAssessorName	string	
SelfAssessmentQuestionnaireDate	datetime	
SelfAssessQuestionnaire	string	
ThirdPartySoftwareName	string	
VersionNo	string	

Continued

Object Reference (cont'd)

ECheckDetails

<i>Name</i>	<i>Type</i>	<i>Description</i>
ATMVerifyTransCount	int	
AuthVeriTransactionCount	int	
CollectNSFFees	bool	
CreditAvgTicketAmount	double	
CreditMaxTicketAmount	double	
CreditMonthlyVolume	double	
DebitAvgTicketAmount	double	
DebitMaxTicketAmount	double	
DebitMonthlyVolume	double	
FacetoFacePercent	int	
FAXPercent	int	FacetoFacePercent + InternetOrderPercent + MailOrderPercent + TelOrderPercent + FAXPercent = 100%.
IDVerifyTransCount	int	
InternetOrderPercent	int	
MailOrderPercent	int	
NCNVerifyTransCount	int	
PerNSFItemFee	double	Required if CollectNSFFees=true.
ProductUtilizedAPI	bool	
ProductUtilizedOther	bool	
ProductUtilizedOtherDesc	string	Required if ProductUtilizedOther=true.
ProductUtilizedSecureWebPay	bool	
ProductUtilizedTransporter	bool	
ProductUtilizedVirtualTerminal	bool	
RecurringPercent	int	SinglePercent + RecurringPercent = 100%.
SinglePercent	int	
TelOrderPercent	int	
ProdSvcCollectedViaACH	int	
ProdSvcDisburseViaACH	int	

Merchant

<i>Name</i>	<i>Type</i>	<i>Description</i>
DBAAddress	string	
DBABizPhone	string	
DBACity	string	
DBACompanyName	string	
DBAContactName	string	
DBACustSvcPhone	string	
DBAEmail	string	
DBAFax	string	
DBAMobilePhone	string	
DBAPhone	string	
DBAState	string	
DBAZip	string	
LegalAddress	string	
LegalBizPhone	string	
LegalCity	string	
LegalContactName	string	
LegalCorpPhone	string	
LegalEmail	string	
LegalFax	string	

Continued

Object Reference (cont'd)

Merchant (cont'd)

<i>Name</i>	<i>Type</i>	<i>Description</i>
LegalMobilePhone	string	
LegalName	string	
LegalState	string	
LegalWebSite	string	
LegalZip	string	

OwnerOfficer

<i>Name</i>	<i>Type</i>	<i>Description</i>
Address	string	
City	string	
DriversLicense	string	
Last4SSN	string	
OwnerDOB	datetime	
OwnerEmail	string	
OwnerName	string	
OwnershipPercent	double	
OwnorRent	bool	true = Own false = Rent
Phone	string	
State	string	
YearsofOwnership	double	
Zip	string	

OwnerProfile

<i>Name</i>	<i>Type</i>	<i>Description</i>
BankruptcyExplanation	string	
BankruptcyFiled	bool	
CurrentOwnershipLength	double	
FederalTaxID	string	
NumofLocations	int	
Owners	OwnerOfficer	Owners object contains OwnerOffice array of objects.
OwnershipType	OwnershipType	This field supports the following values: 0 = Sole_Proprietorship 1 = Partnership_General_Limited 2 = Limited_Liability_Corp 3 = Tax_Exempt_Non_Profit_Org 4 = Closely_Held_Corp 5 = Publicly_Held_Corp 6 = Government_Federal_State 7 = Other
OwnershipTypeOther	string	Required if OwnershipType is Other (7).
TerminatedTMF	bool	
YearsInBusiness	double	

Methods Reference

Before acting upon the objects mentioned above, you must create an Authentication object, which will hash your API Login ID and your Search Transaction Key. In the methods listed in the following sections, this authentication object is the ticket object as displayed in the sample code below.

Sample Code

Getting Started

```
public static ServiceTestClient.MerchantService.Authentication
GetMerchantAuthTicket(string strAPILoginID, string strKey)
{
    ServiceTestClient.MerchantService.Authentication ticket = new
ServiceTestClient.MerchantService.Authentication();
    ticket.APILoginID = strAPILoginID;
    ticket.UTCTime = DateTime.UtcNow.Ticks.ToString();
    ticket.TSHash = CalculateHMACMD5(ticket.APILoginID + "|" + ticket.UTCTime,
strKey.Trim());

    return ticket;
}
```

This method creates a merchant application.

createApplication

Name	Type	Description
Request		
Authentication	Authentication	Authentication object
Application	Application	Application object
Return	int	Returns an Application ID, if successful

This method gets an application's status

getApplicationStatus

Name	Type	Description
Request		
Authentication	Authentication	Authentication object
ApplicationID	int	Application ID for the application
Return	ApplicationStatus	Status of the Application

This method gets the status of documents within an application.

getApplicationDocumentsStatus

Name	Type	Description
Request		
Authentication	Authentication	Authentication object
ApplicationID	int	Application ID for the application
Return	ApplicationDocumentStatus	Document Status of the Application

Continued

Methods Reference (cont'd)

This method updates an application.

updateApplication Status

<i>Name</i>	<i>Type</i>	<i>Description</i>
Request		
Authentication	Authentication	Authentication Object
ApplicationID	int	Application ID for the application
ApplicationStatus	ApplicationStatus	Application Status object
Return	int	Returned if update was successful

This method uploads a document to the application.

uploadDocument

<i>Name</i>	<i>Type</i>	<i>Description</i>
Request		
Authentication	Authentication	Authentication object
ApplicationDocument	ApplicationDocument	ApplicationDocument where file is uploaded.
Return	int	Returns an integer is the operation was successful.
