

Technical Integration Manual



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<http://www.mundipagg.com>

1 Sumário

1	Introduction	3
2	Glossary	4
2.1	Authorize	4
2.1.2	Authorize with Credit card and Boleto	4
2.2	Capture	4
2.2.1	Instant capture	4
2.2.2	Manual Capture	5
	The transaction will be authorized and the request will be pending for capture. The capture can be performed within five days after transaction authorization.	5
2.2.3	Capture With Delay	5
2.3	Void	5
2.3	Recurrence	5
3	How To	6
3.1	Credit card order with instant capture	6
3.2	Order with capture With Delay	6
3.3	Order with more than one Credit Card.	6
3.4	Order with one Credit Card and one Boleto	7
3.5	Recurrence Order	7
3.6	Retries	8
3.7	Capture with ManageOrder	9
3.8	Voiding with ManagerOrder	9
3.9	Consulting with QueryOrder	9
4	Fields	10

1 Introduction

Congratulations for choosing MundiPagg, a company founded to fulfill a market in constant evolution and to deliver excellence through a structure with high technological and human standards. With an efficient, highly experienced and very dedicated team, we offer an intelligent and flexible platform that adapts to different needs and behaviors and constitutes the best solution for Online Payment Methods in Brazil.

With our service you will guarantee the best possible results to your company. As of now you will have access to all the know-how and support necessary to create a payment environment totally focused on converting the highest number possible of transactions. You will be able to do much more than regular transactions. Our services of Credit Card Reconciliation, Recurrence and Online Refund automatize processes that would be expensive and time-consuming if done manually. The effect is cost and time reduction for your business.

When hiring MundiPagg you become partner of a company committed to its values, such as Knowledge, Integrity and Passion that are the basis of all our efforts. Those are aimed to our Goal of “Offering high-end services with the best sales conversion rate of the online payments market that allow our clients to keep focused on their core business”. We want to become the biggest and best online payments company in Latin America till the year 2015.

2 Glossary

2.1 Authorize

The “Authorize” is the first step in every boleto, debit or credit card sale. For boleto orders, the Authorize is going to generate the boleto, and MundiPagg will send back to the establishment the URL and the number of the slip. In the case of orders paid with credit card, the Authorize consists in the data validation from the Acquirer. In case of any limitation, for instance Inventory, the card’s limit can be reserved for up to five days (or period authorized by the Acquirer), during which the Capture has to be done. After that period the limit will be released back to the card’s owner.

2.1.2 Authorize with Credit card and Boleto

MundiPagg’s platform offers the option to create an order with more than one payment method.

2.2 Capture

Capture is the confirmation by the Acquirer of a transaction that has been previously authorized. The Capture can only be done after the authorization.

2.2.1 Instant capture

Instant capture realizes authorization and capture with just a call to service. The capture process occurs simultaneously.

2.2.2 Manual Capture

The transaction will be authorized and the request will be pending for capture. The capture can be performed within five days after transaction authorization.

2.2.3 Capture With Delay

The Capture with Delay is a function which the transaction is authorized and the Capture is done automatically after a designated period. On this kind of operation it's possible to specify the exact period before capturing the value. This is usually used by companies that have some sort of procedure to be made before confirming the capture, like Fraud Analysis. If the company decides not to confirm the transaction they can cancel the previously authorized transaction. The specific configuration for Capture with Delay are in lines 32 and 35, where it is specified the type of operation and the delay period, respectively.

2.3 Void

Void is a way to undo a credit card transaction even if it has been already captured. In the case of only authorized transactions, the cancelling can be done up till five consecutive days. After that period the Acquirer itself cancels the authorization automatically, releasing the limit to the card's holder. If the transaction has already been captured the cancelling can be done until 23h59 on the current day. After that it's necessary to do a Refund.

2.3 Recurrence

Recurrence is a charging transaction that has been repeated in predetermined intervals. This feature is designed for stores that wish to perform as monthly charges or subscriptions.

3 How To

The object that represents a request is `CreateOrderRequest`, so to send one or more transactions that will fill the object and properties `CreateOrderRequest`, `CreditCardTransactionCollection`, `BoletoTransactionCollection`.

- ✓ [CreateOrder](#)
- ✓ [CreateOrderResponse](#)

3.1 Credit card order with instant capture

To realize a transaction with Credit Card is necessary to send the object through the object `CreditCardTransaction` `CreateOrder` sending filled in field `CreditCardOperationEnum` = `AuthAndCapture`.

- ✓ [CreditCardTransaction](#)
- ✓ [CreditCardTransactionResult](#)
- ✓ [CreateOrder](#)
- ✓ [CreateOrderResponse](#)

3.2 Order with capture With Delay

To send a transaction with a credit card is necessary to inform the time which should be completed, to capture in minutes “`CaptureDelayInMinutes`” and the information “`AuthAndCaptureWithDelay`” the field “`CreditCardOperationEnum`” object `CreditCardTransaction` through `CreateOrder`.

- ✓ [CreateOrder](#)
- ✓ [CreateOrderResponse](#)
- ✓ [CreditCardTransaction](#)
- ✓ [CreditCardTransactionResult](#)

3.3 Order with more than one Credit Card.

Nowadays, is very common for a person to have more than one credit card. The market knows this as a fact and it is trying to explore it the best way possible, hence one of the biggest trends being Multi-Method payments. For example a product sold for R\$2.300,00, the buyer has a limit of R\$2.000,00 in one card and

R\$1.000,00 in another. With MundiPagg's Multi-Method Payment available this client will be able to make the purchase.

- ✓ [CreditCardTransaction](#)
- ✓ [CreditCardTransactionResult](#)
- ✓ [CreateOrder](#)
- ✓ [CreateOrderResponse](#)

3.4 Order with one Credit Card and one Boleto

Besides the possibility of payment with more than one credit card, Mundipagg offers the option of orders with multiple payment method. This expands the possibilities for the shop and attracts more potential clients that were stuck with only one option for payment.

When allowing the combination of credit card and invoice payment, your reach will include people with lower income that have lower or compromised credit card limits.

- ✓ [CreditCardTransaction](#)
- ✓ [CreditCardTransactionResult](#)
- ✓ [BoletoTransaction](#)
- ✓ [BoletoTransactionResult](#)
- ✓ [CreateOrder](#)
- ✓ [CreateOrderResponse](#)

3.5 Recurrence Order

To realize a transaction of recurrence is necessary to send the object Recurrency with object the CreditCardTransaction CreateOrder. It's possible send an authorization the amount of \$ 1 OneDollarAuth to check the accuracy of credit card number that was send to schedule, reducing the possibility of recurrence does not occur with later success because the incorrect data.

- ✓ [CreateOrder](#)
- ✓ [CreateOrderResponse](#)
- ✓ [CreditCardTransaction](#)
- ✓ [CreditCardTransactionResult](#)
- ✓ [Recurrency](#)

3.6 Retries

Through the Retries option the company can specify how many times the platform can try to authorize the same order if it was denied the first time. This configuration should be send when creating the application, "Retries" in CreateOrder object.

- ✓ [CreateOrder](#)
- ✓ [CreateOrderResponse](#)
- ✓ [CreditCardTransaction](#)
- ✓ [CreditCardTransactionResult](#)

3.7 Capture with ManageOrder

In the case of capture the authorized transactions, must have been sent only the Order ID (OrderKey). Also, it has another possibility to capture an specific transaction. So, in this case it should be request ManageCreditCardTransaction with Transactionkey full field.

3.8 Voiding with ManagerOrder

To Void all the authorized transactions of the same OrderId, must have been sent only OrderKey. Or to void just only an specific transaction should be request ManageCreditCardTransaction.

- ✓ [ManageOrderRequest](#)
- ✓ [ManageOrderResponse](#)
- ✓ [ManageCreditCardTransactionRequest](#)
- ✓ [CreditCardTransactionResult](#)

3.9 Consulting with QueryOrder

Requesting this method it is necessary to send the OrderId. The return will be in XML format.

- ✓ [QueryOrderRequest](#)
- ✓ [QueryOrderResponse](#)
- ✓ [OrderData](#)
- ✓ [CreditCardTransactionData](#)
- ✓ [BoletoTransactionData](#)

3.10 Status Notification

To receive information about the transactions / orders update, please, send for MundiPagg Support team a URL able to receive XML with updates requests. This URL must respond "OK" in a string format.

*If you will use this functionality, let us know to available an example.

3.11 InstantBuy

To use InstantBuy save the field "InstantBuykey" that is returned inside the collection "CreditCardTransactionResult". Using this key it is possible process others transaction with same creditcard number.

4 Fields

CreateOrder			
Type	Field	Description	Mandatory
long	AmountInCents	Total amount of the order in cents Ex(R\$ 1,00 = 100).	All.
long	AmountInCentsToConsiderPaid	Minimum amount in cents to be considered as paid, in case it's empty it will be considered the amount on field Amount	No mandatory.
Collection of BoletoTransaction	BoletoTransactionCollection	Parameters sent in a Boleto's transaction	Boleto's Generation
Buyer	Buyer	Buyer info.	No mandatory.
Collection of CreditcardTransaction	CreditCardTransactionCollection	Credit card data info.	Credit card Authorization
CurrencyIsoEnum	CurrencyIsoEnum	Type of currency ISO	Automatic Capture.
EmailUpdateToBuyerEnum	EmailUpdateToBuyerEnum	Field used to configure email sending to buyer according to the informed code.	No mandatory.
Guid	MerchantKey	Store identification in Platform One.	All.
string	OrderReference	Order identification in the client's system.	No mandatory.
int	Retries	Number of retries to convert the transaction. (Default is the configuration of the store within Platform One).	No mandatory.
Collection of ShoppingCart	ShoppingCart	Shopping Cart data.	No mandatory.
Guid	RequestKey	Order identification within Platform One	No mandatory.

BuyerRequest

Type	Field	Description	Mandatory
Colection of Address	BuyerAddressCollection	Buyer addresses list.	Boleto / Authorization
Guid	BuyerKey	Store identification within Platform One.	No mandatory.
string	BuyerReference	Buyer identification within the store.	No mandatory.
DateTime	CreateDateInMerchant	Date of registration of the user in the store.	No mandatory.
DateTime	LastBuyerUpdateInMerchant	Date of last update of the user in the store.	No mandatory.
string	Email	Buyer's email.	Only obligatory if filed EmailUpdateTo Buyer is filled.
string	FacebookId	Buyer identification on facebook.	No mandatory.
GenderEnum	GenderEnum	Buyer gender.	No mandatory.
string	IpAddress	Buyer IP.	No mandatory.
string	Name	Buyer name.	No mandatory.
PersonTypeEnum	PersonTypeEnum	Type of buyer.	No mandatory.
string	TaxDocumentNumber	Document number.	Boleto / Invoice Authorization
TaxDocumentTypeEnum	TaxDocumentTypeEnum	Buyer's type of document.	No mandatory.
string	TwitterId	Buyer identification on twitter.	No mandatory.
string	HomePhone	Buyer's home phone number (country code+area code+number).	No mandatory.
string	WorkPhone	Buyer's commercial phone number (country code+area code+number).	No mandatory.
string	MobilePhone	Buyer's cell phone number (country code+area code+number).	No mandatory.

BuyerAddress

Type	Field	Description	Mandatory
string	City	City.	No mandatory..
string	Complement	Complement.	No mandatory.
CountryEnum	CountryEnum	Country.	No mandatory.
string	District	District.	No mandatory.
string	Number	Number.	No mandatory.
string	State	State.	No mandatory.
string	Street	Street.	No mandatory.
string	ZipCode	Zip Code	No mandatory.
AddressTypeEnum	AddressTypeEnum	Address Type.	No mandatory.

ShoppingCart			
Type	Field	Description	Mandatory
Int	FreightCostInCents	Delivery fee Amount	No mandatory.
Collection of ShoppingCartItem	Item	Shopping cart items.	No mandatory.

ShoppingCartItem			
Type	Field	Description	Mandatory
string	ItemReference	Shopping cart item identification within store platform.	No mandatory.
string	Description	Description.	No mandatory.
string	Name	Name.	No mandatory.
int	Quantity	Item quantity.	All.
long	TotalCostInCents	Purchase total Amount.	All.
long	UnitCostInCents	Price per unit.	All.

CreditCardTransaction			
Type	Field	Description	Mandatory
Guid	InstantBuyKey	Buyer identification when purchasing with Instant Buy.	Only when using Instant Buy.
long	AmountInCents	Total Amount in cents to be charged on credit cards.	Mandatory.
long	lataAmountInCents	Total amount in cents for a “lata” transaction, (only for airlines).	No mandatory.
CreditCardBrandEnum	CreditCardBrandEnum	Credit Card brand (Ex: MasterCard, Visa, AMEX).	Mandatory.
int	CaptureDelayInMinutes	Time for capture the transaction in minutes.	No mandatory.
int	ExpMonth	Expiration month.	Mandatory.
int	ExpYear	Expiration year.	Mandatory.
string	HolderName	Card holder’s name.	Mandatory.
int	InstallmentCount	Number of Installments.	Mandatory.
string	CreditCardNumber	Card number.	Mandatory.
int	PaymentMethodCode	Send empty for transactions in production environment and “2” for the test environment.	Mandatory.
Recurrency	Recurrency	Recurrence configuration.	Just in recurrences.

string	SecurityCode	Card's security code..	Mandatory.
CreditCardOperationEnum	CreditCardOperationEnum	Total amount of the operation.	No mandatory.
Guid	ThirdPartyMerchantKey	Used for transaction spliu.	No mandatory.
String	TransactionReference	Transaction identification on the client's system.	No mandatory.

BoletoTransaction			
Type	Field	Description	Mandatory
long	AmountInCents	Total amount of the invoice.	All
string	Instructions	Bank slip/invoice instructions.	No mandatory.
string	NossoNumero	Bank slip/invoice identification number.	All
int	DaysToAddInBoletoExpirationDate	Days till expiration date.	No mandatory.
string	TransactionReference	Transaction identification on the client's system.	All
Bank	BankNumber	Bank code (Ex:Itau,Santander,Bradesco).	All

Recurrency			
Type	Field	Description	Required
DateTime	DateToStartBilling	Date to start billing.	No mandatory.
int	Recurrences	Number of recurrences.	No mandatory.
Bool	OneDollarAuth	If the merchant send true or send empty, will be a test transaction to ensure the accuracy of the data card. PS: The transaction will not be captured.	No mandatory.
Int	Interval	Number of intervals (Ex:1 x monthly)	All
FrequencyEnum	FrequencyEnum	Type of frequency (ex: every 6 months).	No mandatory.

CreateOrderResponse		
Type	Field	Description
Collection of BoletoTransactionResult	BoletoTransactionResultCollection	List of BoletoResponse that contains all final status of bank slips solicited on Request.
Guid	BuyerKey	Buyer identification within Platform One.
Collection of CreditCardTransactionResult	CreditCardTransactionResultCollection	List of CreditCardTransactionResult that contains all final status of transactions solicited on Request.
Guid	MerchantKey	Store identification on Platform One.
int	MundiPaggTimeinMilliseconds	Time for processing on Platform One.

Guid	OrderKey	Order identification on Plataforma One
string	OrderReference	Order identification on the client's system.
OrderStatusEnum	OrderStatusEnum	Order status on Platform One.
Guid	RequestKey	Order identification within Platform One.
string	Version	Version of MundiPagg's service where the communication occurred.

ErrorReport		
Type	Field	Description
string	Category	Identifies the kind of error.
Coleção de ErrorItem	ErrorItemCollection	Collection of ErrorItem.

ErrorItem		
Type	Field	Description
int	ErrorCode	Error identification. 400 - Dado inválido informado para o contrato do serviço. ("invalid data informed to the service contract") 500 - Erro inesperado. ("unexpected error")
string	ErrorField	Error Field.
string	Description	Description of error.
Enum	SeverityCodeEnum .	SeverityCodeEnum.

CreditCardTransactionResult		
Type	Field	Description
string	AcquirerAuthorizationCode	Authorization code from the Acquirer..
string	AcquirerMessage	Acquirer Message.
string	AcquirerReturnCode	Returned code.
long	AcquirerTimeInMilliseconds	Acquirer process time.
long	AmountInCents	Total amount in cents.
long	AuthorizedAmountInCents	Amount authorized in cents.
long	CapturedAmountInCents	Amount captured in cents.
long	RefundedAmountInCents	Amount refunded in cents.
long	VoidedAmountInCents	Amount voided in cents.
string	CreditCardNumber	Credit card number.
CreditCardOperationEnum	CreditCardOperationEnum	Amount of transaction.
CreditCardTransactionStatusEnum	CreditCardTransactionStatusEnum	Field that informs the status of the credit card transaction on Platform One.
DateTime	DueDate	Date that the transaction will be executed.

Guid	InstantBuyKey	Credit Card identification on platform One.
OriginalAcquirerReturn	OriginalAcquirerReturnCollection (see below OriginalAcquirerReturn)	Return information from the Acquirer.
string	TransactionIdentifier	Identification of the order in the acquirer. Eg: TID - Cielo
String	UniqueSequentialNumber	Unique sequential number. Identifies the order in the acquirer.
string	CustomStatus	Customized code to be used by the store.
Guid	TransactionKey	ID transaction.
Bool	Success	Transaction OK.
String	TransactionReference	Store identification
long	AutorizedAmount	Amount authorized .
long	RefundedAmount	Amount refunded .
long	CapturedAmount	Amount captured .

BoletoTransactionResult		
Type	Field	Description
long	AmountPaidInCents	Total amount to be paid in cents.
string	BarCode	Bank clip/invoice number (for payment).
BoletoTransactionStatusEnum	BoletoTransactionStatusEnum	Bank slip/invoice status on Platform One.
string	BoletoUrl	Bank slip/invoice URL
string	NossoNumero	Bank slip/invoice URL identification number.
Guid	TransactionKey	Transaction identification on platform One.
string	CustomStatus	Customized code to be used by the store.
string	TransactionReference	Transaction identification on the client's system.

OriginalAcquirerReturn		
Type	Field	Description
Key	Key	Acquirer identification key.
Values	Values	Value received by the Acquirer according to the key.

ManageOrderRequest			
Type	Field	Description	Mandatory
Guid	MerchantKey	ID store.	All.
Guid	OrderKey	Order ID.	All.
Guid	RequestKey	RequestKey.	No mandatory.
ManageOrderOperationEnum	ManageOrderOperationEnum	Kind of operation.	All.
string	OrderReference	Order Reference.	No mandatory.

string	Version	Service version.	No mandatory.
Coleção de ManageCreditCardTransactionRequest	ManageCreditCardTransactionCollection	Collection of Manager credit card. See Table ManageCreditCardTransactionRequest.	In case of capture is mandatory.

ManageOrderResponse		
Type	Field	Description
Coleção de CreditCardTransactionResult	CreditCardTransactionResultCollection	Collection of CreditCardTransactionResult.
Coleção de BoletosTransactionResult	BoletosTransactionResultCollection (see BoletosTransactionResult)	Collection of BoletosTransactionResult.
MundiPaggSuggestion	MundiPaggSuggestion	To use in the future.
ErrorReport	ErrorReport	Error Report.
Guid	RequestKey	Request identification.
string	OrderReference	Order ID.
Bool	Success	Authorization success.
ManageOrderOperationEnum	ManageOrderOperationEnum	Kind of operation.
int	MundiPaggTimeInMilliseconds	Acquirer process time.
OrderStatusEnum	OrderStatusEnum	Status of transaction.

ManageCreditCardTransactionRequest			
Type	Field	Description	Mandatory
Guid	TransactionKey	Order ID.	All.
string	TransactionReference	Transaction Reference.	No mandatory.
long	AmountInCents	Amount the transaction is cents.	No mandatory.

QueryOrderRequest			
Type	Field	Description	Mandatory
Guid	MerchantKey	Store ID.	All.
Guid	OrderKey	Order ID.	No mandatory.
Guid	RequestKey	Request identification.	No mandatory.
string	OrderReference	Order Reference.	No mandatory.
string	Version	MundiPagg service version.	No mandatory.

QueryOrderResponse		
Type	Field	Description
Collection of OrderData	OrderDataCollection.	OrderDataCollection. See table OrderData .
MundiPaggSuggestion	MundiPaggSuggestion	To use in the future.

ErrorReport	ErrorReport	Error Report.
long	MundiPaggTimeInMilliseconds	Time process.
bool	Success	Authorization success.
Guid	RequestKey	Request key.
int	OrderDataCount	Order data count.

OrderData		
Type	Field	Description
Coleção CreditCardTransactionData	CreditCardTransactionDataCollection	Data from credit card transaction.
Coleção BoletoTransactionData	BoletoTransactionDataCollection	Data from boleto transaction.
Datetime	CreateDate	Order Id date.
string	OrderReference	OrderReference.
Guid	OrderKey	Order Key.
OrderStatusEnum	OrderStatusEnum	Status of transaction.

CreditCardTransactionData		
Type	Field	Description
CreditCardTransactionStatusEnum	CreditCardTransactionStatusEnum	Status of transaction.
Guid	InstantBuyKey	Instant buy key
Guid	TransactionKey	Order ID.
string	TransactionIdentifier	Identification of the order in the acquirer.
string	AcquirerAuthorizationCode	Authorization code.
string	UniqueSequentialNumber	Identifies the order in the acquirer
long	AmountInCents	Amount the transaction.
long	AuthorizedAmountInCents	Amount authorized in cents.
long	CapturedAmountInCents	Amount captured in cents.
long	RefundedAmountInCents	Amount Refunded in cents.
long	VoidedAmountInCents	Amount voided in cents.
DateTime	DueDate	Time process.
string	CustomStatus	Customized status.
string	CreditCardNumber	Credit card number.
string	TransactionReference	Transaction reference.
DateTime	CreateDate	Date that transaction was made.
string	AcquirerName	Acquirer name.
bool	IsReccurrency	Recurrency information.
int	InstallmentCount	Number of installments.
CreditCardBrandEnum	CreditCardBrandEnum	Credut card brand.

BoletoTransactionData		
Type	Field	Description
string	BoletoUrl	Boleto Url.

string	Barcode	Barcode
BoletoTransactionStatusEnum	BoletoTransactionStatusEnum	Boleto status.
Guid	TransactionKey	Transaction Key.
long	AmountInCents	Transaction amount in cents.
string	CustomStatus	Custom Status
string	NossoNumero	Id number, just for boleto.
string	TransactionReference	Transaction reference.
DateTime	ExpirationDate	Expiration date.
string	BankNumber	Bank number.
long	AmountPaidInCents	Amount paid in cents.
DateTime	CreateDate	Date that the transaction was made.

Table 1 - CreditCardOperationEnum

Name
AuthOnly
AuthAndCapture
AuthAndCaptureWithDelay

Table 2 - EmailUpdateToBuyerEnum

Name
Yes
No
YesIfAuthorized
YesIfNotAuthorized

Table 3 - CurrencyIsoEnum

Name
ARS
BOB
BRL
CLP
COP
MXN
PYG
UYU
EUR
USD

Table 4 - PersonTypeEnum

Name

Company
Person

Table 5 - TaxDocumentTypeEnum	
Name	
CPF	
CNPJ	

Table 6 - GenderEnum	
Name	
M	
F	

Table 7 - CreditCardBrandEnum	
Name	
Visa	
Mastercard	
Hipercard	
Amex	
Diners	
Elo	

Table 8 - FrequencyEnum	
Name	
Weekly	
Monthly	
Yearly	

Table 9 - BoletoTransactionStatusEnum	
Name	
Generated	
Viewed	
UnderPaid	
OverPaid	
Paid	
Voided	
WithError	

Table 10 - CreditCardTransactionStatusEnum	
Name	
AuthorizedPendingCapture	
NotAuthorized	
ChargebackPreview	
RefundPreview	
DepositPreview	
Captured	
PartialCapture	
Refunded	
Voided	
Deposited	
OpenedPendindAuth	
Chargedback	
WithError	
Invalid	
PendingVoid	
PartialAuthorize	
PartialRefund	

Table 11 - OrderStatusEnum	
Name	
Opened	
Closed	
Paid	
Overpaid	
Canceled	
PartialPaid	

Table 12 - CountryEnum	
Name	
Brazil	
USA	
Argentina	
Bolivia	
Chile	
Colombia	
Uruguay	
Mexico	

Paraguay

Table 13 - AddressTypeEnum

Name
Billing
Shipping
Comercial
Residential

Table 14 – SeverityCodeEnum

Name	Description
Error	The request wasn't pcessed.
Warning	The request was processed, but one or more data were sent incorrectly and "Service One" changed them to accomplish the conversion transaction.

Table 15 - Category

Name	Description
RequestError	Invalid data for the service.
ThirdPartyError	Third party error.
SystemError	Unexpected error;

Table 16 - ManageOrderOperationEnum

Name
Undefined
Capture
Void