Aprova Fácil

WebService Integration

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Dear Customer,

Webservice is a very simple form of integration that does not require Aprova Fácil client installation in the client's server.

Cobre Bem Tecnologia hopes this Webservice Integration Manual will be a helpful tool in providing you with information.

If any further doubts arise after reading this documentation, please feel free to contact us at:
http://www.cobrebem.com/engcontato.html

Note: In accordance with PCI-DSS requirements Cobre Bem Tecnologia is not allowed to receive a credit card number from its customers. Should you require any support for transactions sent through Cobre Bem Tecnologia please inform only the number of the respective transaction without any credit card data.

Cobre Bem Tecnologia Team

1. Introduction

Webservice is one of the available means to integrate your virtual store to Aprova Fácil through many different payment methods.

2. Integration

In order to start this process the developer should inform us the IP address of the store that will be using Aprova Fácil.

To adopt this method of integration it is mandatory that all transactions are originated from a fixed IP address. If you do not have a fixed IP address you can integrate using the CGI of Cobre Facil or via a COM/DCOM component named CobreBemX. We also offer integration through STAC in which your customer is directed to enter credit card data in our secure server.

2.1. Supported Payment Methods

Aprova Fácil automates many payment methods in conjunction with Banks and Credit Card Issuers, using the internet for transaction capture.

http://www.cobrebem.com/engaprovafacil.html

2.2. Connectivity Technology

http://www.cobrebem.com/engadministradoras.html

2.3. Automation Steps

2.3.1. Credit Card

a) Approval request
b) Capture request
c) Cancellation request
d) Delayed cancel callback
e) Expiring Order ID list (Recurring payments)

2.3.2. Boleto Bancário

a) Issue request
b) Payment confirmation list

2.3.3. On line Bank Transfers

a) Approval request
b) Approval result confirmation
c) Payment confirmation callback

2.3.4. Direct Debit

a) Approval request
b) Transaction result request.

2.4. Capture Time for Approved Transactions

It is possible, for Credit Card Sales, to confirm transaction capture in two ways:

– Manual;
– Automatic.

Confirmation of a transaction is related to the request confirmation information sent by the store to the Issuer. Credit allowance established during approval is considered a temporary reserve of an amount on client's credit card till definitive confirmation of transaction. Capture may be Manual or Automatic, depending on the implementation done by the developer.

The shopkeeper determines the type of confirmation in accordance with the type of sales being done. Usually the shopkeeper chooses the manual capture confirmation mode when it is desired that a request be verified before confirmation of transaction by the Issuer.

If the shopkeeper does not capture a transaction within the Issuer's deadline, respecting the connectivity technology being used, it will be automatically undone. In this case the client's credit card will not be charged

The shopkeeper can view the date and hour of this process that is called "Desfazimento", in the field marked "Data/Hora Cancelamento" of Aprova Fácil log.

Below is a table containing the confirmation deadlines of transactions, according to the connectivity technology and Issuer.

Credit Card Issuer	Connectivity Technology	Confirmation deadline - Manual
Cielo	TEF Dedicado	47 hours
	Verified By Visa	Up to 5 days
	MoSet	
Redecard	Komerci	Manual capture is only possible with Pre-Authorization, if this is the case the value is 5 days (*) see Observation 1 below
	Komerci Webservice	
American Express	TEF Dedicado	23 hours
	WebPos	5 days
Hipercard	TEF Dedicado	47 hours
Aura		

Komerci and **Komerci Webservice** technologie**s** from Redecard only allow automatic capture with confirmation deadlines of 2 and 5 minutes, respectively.

(*) **Observation 1:** If the shop is enabled for Komerci or Komerci Webservice technologies with "Pré-Autorização" by Redecard Issuer, capture may be done in manual mode. In this case the deadline for confirmation is 5 back to back days from the processing date established by Redecard Issuer.

2.5. Aprova Fácil Result Encoding

If the developer wishes the results to be encoded in UTF-8, use "S" for parameter ResponderEmUTF8 , during request. Otherwise, the encoding will default to ISO 8859-1.

3. Credit Cards - Approval Requests - APC

3.1. Description

The approval request should be used every time the developer's application needs financial approval for a credit card sale.

There are three types of approval: single sale request, recurring payment request and scheduled sale request.

A single sale request occurs when credit card information is sent to Aprova Fácil. This information is sent to the issuer which will return either an approved or not approved transaction response.

A recurring payment request occurs when a previous processed Order ID is sent to Aprova Fácil instead of credit card information. In this case Aprova Fácil retrieves the credit card information from the previous transaction and fills in that information in received parameters before processing the financial transaction.

A scheduled sale request occurs when a credit card needs to be charged monthly. Aprova Facil will automatically perform this operation after the first approved transaction of the schedule created, observing the number of months stipulated in the schedule.

3.2. Sending Methods

Data sent during the request are confidential so POST is the method used via HTTPS.

3.3. URLs

3.3.1. Main Server: www.aprovafacil.com/cgi-bin/APFW/<usuario>/APC

3.3.2. Backup Server: backup.aprovafacil.com/cgi-bin/APFW/<usuario>/APC

3.3.3. Backup2 Server: backup2.aprovafacil.com/cgi-bin/APFW/<usuario>/APC

3.3.4. Test Server: teste.aprovafacil.com/cgi-bin/APFW/<usuario>/APC

Observation: Substitute <usuario> for the appropriate user name

3.4. Request Parameters

Observation: If you do not wish to use an optional parameter, simply leave it blank.
Technologies: TEF Dedicado / MoSet / Web POS / Komerci Web Service

Name	Description	Formatting	Sample	Mandatory
NumeroDocumento	Company Order ID	up to 50 characters	123ABC	no

Name	Description	Formatting	Sample	Mandatory
ValorDocumento	Transaction amount	numeric with 2 decimal digits (decimal separator is a dot)	123.56	yes
ValorEntrada*	Boarding fee	numeric with 2 decimal digits (decimal separator is a dot)	123.56	no
QuantidadeParcelas	Amount of Installment	2 numeric digits	01	yes
NumeroCartao	Credit card number	up to 19 numeric digits	4073020000000002	yes
MesValidade	Credit card expiration month	2 numeric digits	11	yes
AnoValidade	Credit card expiration year	2 numeric digits	08	yes
CodigoSeguranca**	Credit card CVC2 or CVV2	up to 4 numeric digits	123	Yes, only when technology is not Komerci WebService***
PreAutorizacao	See description below****	Character S=Yes and N=No	S	no
EnderecoIPComprador	Buyer's IP	000.000.000.000	200.200.200.0	yes
NomePortadorCartao	Name as Written on Card	Up to 50 Alphanumeric Characters	José da Silva	no
Bandeira	Credit Card Banner	Valid Amounts VISA MASTERCARD DINERS AMEX HIPERCARD JCB SOROCRED AURA	MASTERCARD	no
Adquirente	Preferred acquirer for the transaction	REDECARD CIELO	REDECARD	no
CPFPortadorCartao	Card holder CPF	14 numeric digits 11 numeric digits	12345678123412 12345678912	no
DataNascimentoPortadorCartao	Card holder birth date	yyyymmdd	20071027	no
ParcelamentoAdministradora	Used to activate issuer installment	One character only: S	S	no
Moeda	Currency used in the sale (if not informed, it is assumed the value BRL)	Valid values: BRL, MXN, CLP (Other ISO values for definitions of currency - ISO 4217)	BRL	no

* To be used only by Airlines. The use of this parameter needs to be enabled by Cobre Bem Tecnologia.

** It is possible to control the response on Aprova Facil Tests Environment. To do this, please use the parameter "CodigoSeguranca". See the sample below. This feature is not available for Aura neither Sorocred card transactions.

"CodigoSeguranca" Informed	Response
555 or 123	Autorizado
501	05 - 05NAO AUTORIZADA
502	78 - 78CAR BLOQ1.USO
504	14 - 14CARTAOINVALIDO
506	60 - Valor Inválido. Por favor, ent
507	68 - T68TRANSACAO JA EFETUADA
508	54 - 54CARTAO VENCIDO
509	56 - Dado Inválido. Por favor, entr
444	N7 - N7COD.SEG.INVAL
333	84 - T84REFACA TRANS

*** As ruled by Redecard CVV2 cannot be captured if you are using Komerci Web Service Technology.

**** Pre authorization is the temporary reserve of a certain amount on a credit card, in order to guarantee its availability. This resource can be used with Komerci and Komerci WebService technologies (Redecard). This type of sales resource is only used in special projects where pre-authorization is necessary.

3.5. Scheduling - Description

Whenever it is necessary to debit a credit card monthly, maintaining the same conditions, scheduling of a transaction applies.

- Same values

- Monthly payment always on the same day.

Aprova Fácil schedules automatically obeying debit rules informed on scheduling parameters described in item 3.5.2 of this manual.

Important: Scheduling is subject to the following condition: The first transaction must have been approved by the Issuer.

3.5.1. Scheduling - Connectivity Technology

Listed below are the technologies that support scheduling:

- TEF Dedicado, MoSet (Cielo), Komerci WebService (Redecard) and WebPos (Amex).

3.5.2. Scheduling - Parameters Used to Schedule a Transaction

Below are the request parameters that should be sent during the first credit card debit request along with the rest of the data of the request. This kind of transaction requires the field NumeroDocumento as mandatory. It can't be nule and must be an unique identified number per merchant.

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
Agendamento*	Used to include, update or exclude a scheduling	One character only : I (Include), A (Update) or E (Exclude)	I	no
TransacaoAnterior	Aprova Facil transaction ID	14 numeric digits	78712879871121	If Agendamento=A or E
DiaParaAgendar	Day of Charge Due	dd	09	If Agendamento=I
QuantidadeMesesParaAgendar	Number of Months in which to apply charge	2 numeric digits	08	If Agendamento=I
NumeroTentativasNaoAprovado	Number of tries to approve	2 numeric digits	04	If Agendamento=I
QuantidadeDiasEntreTentativas	Interval between tries	2 numeric digits	03	If Agendamento=I
ParcelamentoAdministradora	Used to activate issuer installment	One character only: S	S	no

* If values A or E are informed for the parameter labeled Agendamento, the parameter labeled TransacaoAnterior must be used.

3.6. Recurrence - Description

Whenever new credit card charges, regardless of periodicity, are necessary, it is possible to change the value of the debt (amount) for each separate charge event.

This process of *re-charging* within a recurrence is different from *re-charging* within a scheduling as the former is guided by the shopkeeper´s application. When *re-charging* within a recurrence it is only necessary to inform the ID number of the last approved and confirmed transaction. The word "Transacao" designates this ID number.

Observation: Transaction ID is automatically determined by Aprova Fácil, and each number is unique.

3.6.1. Recurrence - Connectivity Technologies

Listed below are the technologies that support recurrence: TEF Dedicado, MoSet (Cielo), Komerci WebService (Redecard) and WebPos (Amex).

There are 3 ways to capture the CVV for the Credit Card Issuer Cielo (typed, chip and track). To use recurrency along with connectivity technology TEF 4.1, it is mandatory to disable the CVV2 typed option.

3.6.2. Recurrence - Request Parameters

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
TransacaoAnterior	Aprova Facil transaction ID	14 numeric digits	78712879871121	yes
ValorDocumento	Transaction amount	numeric with 2 decimal digits (decimal separator is a dot)	123.56	yes
QuantidadeParcelas	Amount of Installment	2 numeric digits	1	yes
ParcelamentoAdministradora	Used to activate issuer installment	One character only: S	S	no

3.7. Consulting AVS (Address Verification Service)

AVS is offered by issuers in order to allow the shopkeeper to confirm CPF and cardholder address as sales is underway.

This type of service is available once the commercial establishment has enabled it through the issuer.

AVS is available for Amex and Mastercard brands and for WebPos, Komerci and Komerci WebService connectivity technologies in the order given.

If shopkeeper establishment is AVS enabled, when data are solicited, the following parameters should also be given:

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
AVS	Valores: N – Don't consult S – Consult	01 character	S	Yes, if AVS consultation is desired

Other Technologies

Name	Description	Formatting	Sample	Mandatory
AVS	Values: N – Don't consult S – Consult	01 Uppercase Character	S	yes
CPFPortadorCartao	CPF of Card holder	14 numeric digits 11 numeric digits	12345678123412 12345678912	IF AVS = S
EnderecoPortadorCartao	Card holder address	up to 50 characters Address + number	Av. das flores 123	IF AVS = S
CEPPortadorCartao	Card holder Zip code	08 numeric digits	20555000	IF AVS = S

3.8. Request Examples

3.8.1. Single Sale

```
<form action=https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/APC
method=post>
<input type=text name=NumeroDocumento value="123ABC">
<input type=text name=ValorDocumento value="123.56">
<input type=text name=QuantidadeParcelas value="1">
<input type=text name=NumeroCartao value="4073020000000002">
<input type=text name=MesValidade value="11">
<input type=text name=AnoValidade value="08">
<input type=text name=CodigoSeguranca value="123">
<input type=text name=CPFPortadorCartao value="12345678123412">
<input type=submit value="Solicitar Aprovacao">
</form>
```

Observation: Substitute <usuario> for the appropriate user name.

3.8.2. Recurrent Payment

```
<form action=https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/APC
method=post>
<input type=text name=NumeroDocumento value="123ABC">
<input type=text name=ValorDocumento value="123.56">
<input type=text name=QuantidadeParcelas value="1">
<input type=text name=TransacaoAnterior value="123ABC">
<input type=submit value="Solicitar Aprovacao">
```

```
</form>
```

Observation: Substitute <usuario> for the appropriate user name.

3.8.3. Scheduled Payment

```
<form action=https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/APC
method=post>
<input type=text name=NumeroDocumento value="123ABC">
<input type=text name=ValorDocumento value="123.56">
<input type=text name=QuantidadeParcelas value="1">
<input type=text name=NumeroCartao value="4073020000000002">
<input type=text name=MesValidade value="11">
<input type=text name=AnoValidade value="08">
<input type=text name=CodigoSeguranca value="123">
<input type=text name=CPFPortadorCartao value="12345678123412">
<input type=text name=QuantidadeParcelas value="1">
<input type=text name=Agendamento value=I>
<input type=text name=DiaParaAgendar value=03>
<input type=text name=QuantidadeMesesParaAgendar value=10>
<input type=text name=NumeroTentativasNaoAprovado value=3>
<input type=text name=QuantidadeDiasEntreTentativas value=5>
<input type=submit value="Solicitar Aprovacao">
</form>
```

Observation: Substitute <usuario> for the appropriate user name

3.8.4. Payment with AVS Consultation

```
<form action=https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/APC
method=post>
<input type=text name=NumeroDocumento value="123ABC">
<input type=text name=ValorDocumento value="123.56">
<input type=text name=QuantidadeParcelas value="1">
<input type=text name=NumeroCartao value="4073020000000002">
<input type=text name=MesValidade value="11">
<input type=text name=AnoValidade value="08">
<input type=text name=CodigoSeguranca value="123">
<input type=text name=QuantidadeParcelas value="1">
<input type=text name=Agendamento value=I>
<input type=text name=DiaParaAgendar value=03>
<input type=text name=QuantidadeMesesParaAgendar value=10>
<input type=text name=NumeroTentativasNaoAprovado value=3>
<input type=text name=QuantidadeDiasEntreTentativas value=5>
<input type=text name=AVS value=S>
<input type=text name=CEPPortadorCartao value=12312000>
<input type=text name=CPFPortadorCartao value=11111111111>
<input type=text name=EnderecoPortadorCartao value="Rua do Sacado">
<input type=submit value="Solicitar Aprovacao">
</form>
```

3.9. Process Result in XML Format

Resposta XMLdo processamento de uma transação.

```
<ResultadoAPC>
<TransacaoAprovada>TRUE</TransacaoAprovada>
<ResultadoSolicitacaoAprovacao>00 - APROVADA</ResultadoSolicitacaoAprovacao>
<CodigoAutorizacao>082030</CodigoAutorizacao>
<Transacao>73314072604262</Transacao>
<CartaoMascarado>407302******0002</CartaoMascarado>
<NumeroDocumento>12345</NumeroDocumento>
<ComprovanteAdministradora>RETORNO,DEPENDE DA TECNOLOGIA
</ComprovanteAdministradora>
<NacionalidadeEmissor> </NacionalidadeEmissor>
<ResultadoAVS> </ResultadoAVS>
<EnderecoAVS>
<Endereco> </Endereco>
<Numero> </Numero>
<Complemento> </Complemento>
<Cep> </Cep>
</EnderecoAVS>
</ResultadoAPC>
```

3.9.1. Parameter Description

Below are description and format of XML return parameters.

Name	Description	Formatting	Sample	Mandatory
TransacaoAprovada	Transaction result	True or False	True	yes
ResultadoSolicitacaoAprovacao	Request result description	Varchar text	see table below	yes
CodigoAutorizacao	Authorization code returned by the credit card issuer	6 digits text	N12345	yes if approved
Transacao	Aprova Facil transaction ID	14 text digits	73263868827369	yes
CartaoMascarado	Masquerade credit card number	up to 19 numeric digits	444433******1111	yes
NumeroDocumento	Company Order ID	up to 50 characters	123ABC	yes
Adquirente	Acquirer used for transaction	REDECARD CIELO	REDECARD	no
NumeroSequencialUnico	Issuer approval number	6 numeric digits	123456	no
ComprovanteAdministradora	Issuer confirmation Text	Varchar text	N/A	no
NacionalidadeEmissor	Issuer country	null text	N/A	no

Name	Description	Formatting	Sample	Mandatory
ResultadoAVS	Address verification result (See item 3.9.2 table)	null text	N/A	no
EnderecoAVS	Group tag for verified address	N/A	N/A	no
Endereco	Verified address street	null text		no
Numero	Verified address number	null text	N/A	no
Complemento	Verified address complement	null text	N/A	no
Cep	Verified address zip code	null text	N/A	no

3.9.2. Table of Values for parameter "ResultadoAVS"

Amex	
Code	**Description**
X	Adress and CEP 9 – digits match
Y	Address and CEP 5 -digits match
W	Only CEP 9 - digits match
S	Service not supported
G	Issuer is not a member of AVS
A	Address matches. Cep does not match or could not be verified.
Z	Cep 5 - digits match but address does not.
R	Issuer not available
U	Address not available
N	Nothing matches
E	Address and CEP not given

Redecard	
Code	**Description**
W	Yes, all digits match
X	CEP and CPF match, address does not
Z	Address and CPF match, CEP does not
Y	CEP matches,, CPF and address do not
A	CPF matches, CEP and address do not
U	CEP and CPF do not match, address does
S	CEP and address match, CPF does not
N	Nothing matches

3.10. Common Error Results

Result Text	Description
Erro - Valor Inválido	Invalid value
Erro - Valor deve ser maior que zero	Value > 0
Erro - Número Parcelas Inválido	Invalid Installment Number
Erro - Número Parcelas deve ser maior que zero	Installment Number > 0
Erro - Transação Anterior não Localizada	Previous Transaction not Found
Erro - Conectividade não permite recorrência	Connectivity does not allow recurrence
Erro - Cartão Inválido	Invalid Card
Erro - Estabelecimento não cadastrado para a Bandeira XXX Adquirinte YYY	Merchant can not accept XXX credit card brand payments
Erro - Estabelecimento não habilitado para a Bandeira XXX Adquirinte YYY	XXX credit card brand disabled for merchant
Erro - Código do Emissor do cartão Inválido	Invalid Issuer Credit Card Code
Erro - Mês/Ano Validade Inválidos	Valid till Month/Year Invalid
Erro - Cartão fora do prazo de validade	Card has Expired
Erro - Número Parcelas Agendamento Inválido	Invalid Scheduled Installment Number
Erro - Número Parcelas Agendamento deve ser maior que 1	Scheduled Installment Number > 0
Erro - Dia Débito Inválido	Invalid due date
Erro - Dia Débito deve estar entre 1 e 31	Due date must be between 1 and 31
Erro - Número Tentativas Inválido	Invalid Number of Tries
Erro - Número Tentativas ser maior que 1 ou igual a zero	Number of Tries should be > 1 OR = 0
Erro - Dias entre Tentativas Inválido	Number of Days Between Tries Invalid
Erro - Dias entre Tentativas ser maior ou igual a 1	Number of days between tries must be equal or greater than 1
Erro - Cliente sem Estabelecimento de Aprovação	Merchant without acquirer
Erro - Conexão não Estabelecida	Connection was not established
Erro - Conexão AVS não Estabelecida	AVS connection not established
Erro - Sem Servidor Aprovação	No server for approval
Erro - IP não permitido	IP not allowed
Erro - Última Aprovação para o cartão tem menos do que 5 minutos	Last approval under five minutes ago
Erro - Cartão com 3 tentativas não aprovadas	Three non approved tries
Erro - Parâmetros Incorretos	Incorrect Parameters
Erro - Código Cliente Inválido	Invalid client code
Erro - Código de Cliente Forjado	Forged Client Code
Erro - Modo de Operação Inválido	Invalid Operation Mode

4. Credit Card - Capture Request - CAP

4.1. CAP – Description

The CAP execution command captures a transaction. Capture is the process of confirmation of a transaction which results in a final sale, in which the client's credit card is charged.

In conformity with ISO 8583 standards all transactions approved by issuers must be captured by the shopkeeper's applications.

If the transaction is not captured by the shopkeeper's application in the deadline determined by the issuers, it will be automatically undone. In this case the client's credit card will not be charged. The shopkeeper can view this information in the field marked "Data/Hora Cancelamento" of Aprova Fácil log.

4.2. CAP – Sending Methods

Parameters may be sent using POST or GET by HTTP or HTTPS connections as no confidential data are transmited.

4.3. CAP – URLs

4.3.1. Main Server: www.aprovafacil.com/cgi-bin/APFW/<usuario>/CAP

4.3.2. Backup Server: backup.aprovafacil.com/cgi-bin/APFW/<usuario>/CAP

4.3.3. Backup2 Server: backup2.aprovafacil.com/cgi-bin/APFW/<usuario>/CAP

4.3.4. Teste Server: teste.aprovafacil.com/cgi-bin/APFW/<usuario>/CAP

Observation: Substitute <usuario> for the appropriate user name.

4.4. CAP - Request Parameters

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
NumeroDocumento	Company Order ID	up to 50 characters	123ABC	no
Transacao	Transaction ID	14 numeric digits	73263500055432	If NumeroDocumento is nil
ValorDocumento*	Amount to be captured.	numeric with 2 decimal digits (decimal character is dot)	123.56	no

* Used only when a partial amount has to be captured. Only some connectivity technologies allows a partial capture, please contact us if you want to use it.

4.5. CAP - Examples of GET Requests

4.5.1. Capture using ID Number issued by commercial establishment
https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/CAP?NumeroDocumento=456DEF

4.5.2. Capture Using ID Number issued by Aprova Fácil
https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/CAP?Transacao= 73263783188291

Observation: Substitute <usuario> for the appropriate user name.

4.6. Result Examples

4.6.1. Sucessful Capture

<ResultadoCAP>
<ResultadoSolicitacaoConfirmacao>
    Confirmado%2073263500055432
</ResultadoSolicitacaoConfirmacao>
<ComprovanteAdministradora></ComprovanteAdministradora>
</ResultadoCAP>

4.6.2. Capture with Error

<ResultadoCAP>
<ResultadoSolicitacaoConfirmacao>
    Erro%20-%20Transa%E7%E3o%20a%20confirmar%20n%E3o%20encontrada
%20ou%20jE1%20confirmada
</ResultadoSolicitacaoConfirmacao>
<ComprovanteAdministradora></ComprovanteAdministradora>
</ResultadoCAP>

4.7. Results of Successful Capture

The result of a successfully captured transaction will start with the word "Confirmado", followed by a one space character and the Aprova Fácil transaction ID number.

4.8. Common Error Results

Result Text	Description
Erro - Transação Inválida	Invalid transaction ID
Erro - Transação a confirmar não encontrada ou já confirmada	Transaction ID or Order ID not found or already captured
Erro - IP não permitido	Merchant IP address not allowed
Erro - Estabelecimento não cadastrado para a Bandeira XXX Adquirinte YYY	Merchant can not accept XXX payments
Erro - Estabelecimento não habilitado para a Bandeira XXX Adquirinte YYY	Merchant can not accept XXX payments
Erro - Captura Já Efetuada	Already captured

Result Text	Description
Erro - Parâmetros Incorretos	Invalid parameters
Erro - Código Cliente Inválido	Invalid merchant ID
Erro - Código de Cliente Forjado	Invalid merchant ID
Erro - Modo de Operação Inválido	Invalid operation mode
Erro - Conexão para confirmação não Estabelecida	Could not connect to Issuer

5. Credit Card - Transaction Cancellation - CAN

5.1. CAN - Description

The CAN execution command cancels a transaction. Cancelling a transaction is only possible after the same has been approved by the issuer and confirmed by the shopkeeper.

Due to this, cancellation must be requested on the same day that the transaction was processed, in other words, on the same day it was confirmed by the issuer in order for it to be processed by Aprova Fácil.

5.2. CAN - Sending Methods

Parameters may be sent using POST or GET by HTTP or HTTPS connections as no confidential data are transmitted.

5.3. CAN - URLs

5.3.1. Main Server: www.aprovafacil.com/cgi-bin/APFW/<usuario>/CAN

5.3.2. Backup Server: backup.aprovafacil.com/cgi-bin/APFW/<usuario>/CAN

5.3.3. Backup2 Server: backup2.aprovafacil.com/cgi-bin/APFW/<usuario>/CAN

5.3.4. Test Server: teste.aprovafacil.com/cgi-bin/APFW/<usuario>/CAN

Observation: Substitute <usuario> for the appropriate user name.

5.4. CAN - Request Parameters

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
NumeroDocumento	Company Order ID	Up to 50 Alphanumeric characters	123ABC	no
Transacao	Aprova Facil transaction ID	14 numeric digits	73263500055432	If NumeroDocumento is nil
ValorDocumento*	Amount to be cancelled.	numeric with 2 decimal digits (decimal character is dot)	123.56	no

* Used only when a partial amount has to be cancelled. Only some connectivity technologies allows a partial cancellation, please contact us if you want to use it.

5.5. CAN - Request Examples

5.5.1. Cancellation using ID Number issued by commercial establishment
https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/CAN?NumeroDocumento=456DEF

5.5.2. Cancellation using ID Number issued by Aprova Fácil
https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/CAN?Transacao= 73263783188291

Observation: Substitute <usuario> for the appropriate user name.

5.6. XML Results

```
<ResultadoCAN>
<ResultadoSolicitacaoCancelamento></ResultadoSolicitacaoCancelamento>
<NSUCancelamento></NSUCancelamento>
</ResultadoCAN>
```

5.7. XML Tag Results

Name	Description	Formatting	Sample	Mandatory
ResultadoCAN	Root XML tag	N/A	N/A	yes
ResultadoSolicitacaoCancelamento	Cancel request result description	Varchar text	See table below	yes
NSUCancelamento	Issuer Cancellation number	6 numeric digits	123456	no

5.8. Result Examples

5.8.1. Successful Online Cancellation

```
<ResultadoCAN>
<ResultadoSolicitacaoCancelamento>
        Cancelado%2073263500055432
</ResultadoSolicitacaoCancelamento>
<NSUCancelamento>
        123456
</NSUCancelamento>
</ResultadoCAN>
```

5.8.2. Successful Scheduled Cancel

```
<ResultadoCAN>
<ResultadoSolicitacaoCancelamento>
        Cancelamento%20marcado%20para%20envio%2073263500055432
</ResultadoSolicitacaoCancelamento>
<NSUCancelamento>
        123456
</NSUCancelamento>
</ResultadoCAN>
```

5.8.3. Scheduled Cancel Error

```
<ResultadoCAN>
<ResultadoSolicitacaoCancelamento>
        Erro%20-%20Transa%E7%E3o%20inv%E1lida
</ResultadoSolicitacaoCancelamento>
<NSUCancelamento></NSUCancelamento>
</ResultadoCAN>
```

5.8.4. Error in Scheduled Cancellation

```
<ResultadoCAN>
<ResultadoSolicitacaoCancelamento>
        Erro%20-%20Transa%E7%E3o%20inv%E1lida
</ResultadoSolicitacaoCancelamento>
<NSUCancelamento></NSUCancelamento>
</ResultadoCAN>
```

5.9. Successful Cancellation Result

The result of a successfully canceled transaction will read "Cancelamento OK".

5.10. Common Error Results NSU Cancellation

Texto Resultante	Descrição
Erro - Transação Inválida	Invalid transaction ID
Erro - Transação a cancelar não encontrada ou já cancelada	Transaction ID or Order ID not found or already canceled
Erro - IP não permitido	Merchant IP address not allowed
Erro - Estabelecimento não cadastrado para a Bandeira XXX Adquirinte YYY	Merchant can not accept XXX payments
Erro - Estabelecimento não habilitado para a Bandeira XXX Adquirinte YYY	XXX disabled for merchant
Erro – Cancelamento Já Efetuado	Already canceled
Erro - Parâmetros Incorretos	Invalid parameters
Erro - Código Cliente Inválido	Invalid merchant ID
Erro - Código de Cliente Forjado	Invalid merchant ID
Erro - Modo de Operação Inválido	Invalid operation mode
Erro - Conexão para cancelamento não Estabelecida	Could not connect to Issuer

6. Credit Card – Delayed Cancel Call-Back

6.1. Description

The developer should provide a URL in order to receive POST or GET from Aprova Fácil servers with the confirmation data of a previously requested cancellation.

6.2. URLs

6.2.1. Example of client Server
https://www.yoursitenamehere.com.br/retorno.php

6.3. Sending Methods

6.3.1. HTTPS POST

6.3.2. HTTPS GET

6.4. Call-Back Parameters

Name	Description	Formatting	Sample	Mandatory
NumeroDocumento	Company Order ID	up to 50 characters	123ABC	yes
ResultadoSolicitacaoCancelamento	Description of cancellation request result	Varchar text	see table below	yes
NSUCancelamento	Issuer Cancellation number	6 numeric digit	123456	no

6.5. Call-Back Example
https://www.yoursitenamehere.com.br/retorno.php?
NumeroDocumento=123ABC&ResultadoSolicitacaoCancelamento=Cancelado
%207326350005432&NSUCancelamento=123456

6.6. Successful Cancellation Result

The result of a successfully canceled transaction will start with the word "Cancelado", followed by a one space character and the Aprova Facil transaction ID number.

7. Credit Card –Expiring Order ID Request (Scheduled and Recurrent Sales)

7.1. Description

The expiring order ID list request will return an XML list which contains all the request IDs of credit cards expiring in the given time frame. This request should be used by merchants that need to know the maximum limit date allowed for recurring payments per order previously sent.

7.2. URLs

7.2.1. Main Server: www.aprovafacil.com/cgi-bin/APFW/<usuario>/EXP

7.2.2. Backup Server: backup.aprovafacil.com/cgi-bin/APFW/<usuario>/EXP

7.2.3. Backup2 Server: backup2.aprovafacil.com/cgi-bin/APFW/<usuario>/EXP

7.2.4. Test Server: teste.aprovafacil.com/cgi-bin/APFW/<usuario>/EXP

Observation: Substitute <usuario> for the appropriate user name.

7.3. Sending Methods

7.3.1. HTTPS POST

7.3.2. HTTPS GET

7.4. Request Parameters

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
DataInicial	Initial Month and Year	yyyymm	200610	yes
DataFinal	Last Month and Year	yyyymm	200611	yes

7.5. Request Example

https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/EXP?DataInicial=200610&DataFinal=200611

Observation: Substitute <usuario> for the appropriate user name.

7.6. XML Results

<ResultadoEXP>
<ResultadoSolicitacaoListaExpiracao></ResultadoSolicitacaoListaExpiracao>
<TamanhoListaExpiracao></TamanhoListaExpiracao>
<CC S= N= D= />

```
<CC S= N= D= />
...
...
<CC S= N= D= />
</ResultadoEXP>
```

7.7. Resulting XML Tags

Name	Description	Formatting	Sample	Mandatory
ResultadoEXP	Root XML tag	N/A	N/A	yes
ResultadoSolicitacaoListaExpiracao	Request result description	Varchar text	see table below	yes
TamanhoListaExpiracao	Result list size	up to 6 numeric digits	10	yes
CC	Identifies an item in the list	N/A	N/A	yes
S	Sequential item number in the list	up to 6 numeric digits	123	yes
N	Order ID	up to 50 characters	123ABC	yes
D	Credit card expiration date	yyyymm	200611	yes

7.8. Result Examples

7.8.1. Successful

```
<ResultadoEXP>
<ResultadoSolicitacaoListaExpiracao>OK</ResultadoSolicitacaoListaExpiracao>
<TamanhoListaExpiracao>5</TamanhoListaExpiracao>
<CC S=1 N=123AB D=200610 />
<CC S=2 N=456CD D=200611 />
<CC S=3 N=789FG D=200610 />
<CC S=4 N=123IJK D=200610 />
<CC S=5 N=456LM D=200611 />
</ResultadoEXP>
```

7.8.2. In Error

```
<ResultadoEXP>
<ResultadoSolicitacaoListaExpiracao>
        Erro%20-%20Data%20Inicial%20inv%E1lida
</ResultadoSolicitacaoListaExpiracao>
</ResultadoEXP>
```

7.9. Common Error Results

Result text	Description
Erro - Transação Inválida	Invalid transaction ID
Erro - IP não permitido	Merchant IP address not allowed
Erro - Parâmetros Incorretos	Invalid parameters
Erro - Código Cliente Inválido	Invalid merchant ID
Erro - Código de Cliente Forjado	Invalid merchant ID
Erro – Data inicial inválida	Invalid begin date for database search
Erro – Data final inválida	Invalid end date for database search

8. Boleto Bancário – Issue Request – BOL

8.1. BOL - Description

The issue request will return a boleto bancario in HTML to the client's browser.

8.2. BOL - Sending Methods

The sending method used may be POST or GET by HTTP or HTTPS.

8.3. BOL - URLs

8.2.1. Main Server: www.aprovafacil.com/cgi-bin/APFW/<usuario>/BOL

8.2.2. Backup Server: backup.aprovafacil.com/cgi-bin/APFW/<usuario>/BOL

8.2.3. Backup2 Server: backup2.aprovafacil.com/cgi-bin/APFW/<usuario>/BOL

8.2.4. Test Server: teste.aprovafacil.com/cgi-bin/APFW/<usuario>/BOL

Observation: Substitute <usuario> for the appropriate user name.

8.4. BOL - Request Parameters

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
CCID	Identifies the account to be used for boleto issuing	Alphanumeric Characters	BankAccount1	yes
NumeroDocumento	Company Order ID	Up to 50 Alphanumeric characters	123ABC	yes
ValorDocumento	Transaction amount	numeric with 2 decimal digits (decimal character is dot)	123.56	yes
DataVencimento	Due date for boleto	yyyymmdd	20071027	no
PrazoVencimento	Amount of days to be added to current date and generate an expiry date	up to 4 numeric digits	3	no
VencimentoDiaUtil	Modifies the due date to the next business day	S - Modify	S	no
CNPJCPFSacado	Buyer's CNPJ or CPF ID	14 numeric digits 11 numeric digits	12345678123412 12345678912	no
NomeSacado	Buyer's name	up to 40 characters	First Customer	no
EnderecoSacado	Buyer's address	up to 40 characters	123 Customer Road	no

Name	Description	Formatting	Sample	Mandatory
CEPSacado	Buyer's zip code	5 numeric digits + dash + 3 numeric digits	12345-008	no
CidadeSacado	Buyer's city name	up to 30 characters	Rio de Janeiro	no
EstadoSacado	Buyer's state	02 characters	RJ	no
EnderecoEmailSacado	Buyer's e-mail address	Up to 64 characters	someone@teste.com.br	no
PercentualJurosDia	Interest in percent to be charged per day payment is overdue	Numeric, decimals being separated by (.)	0.99	no
PercentualMulta	Fine, in percent to be charged if payment is overdue	Numeric, decimals being separated by (.)	0.99	no
InstrucoesCaixa	HTML that will be shown to the bank teller	HTML code	don't receive after due date 	no
Demonstrativo	HTML that will be shown on the merchant's client receipt	HTML code	This refers to the sales of X products	no
SacadorAvalista	Name of guarantor if applicable	Characters	Guarantor Name	no
ValorDesconto	Discount amount to be granted to buyer	Numeric, using (.) as decimal separator	0.99	no
ValorOutrosAcrescimos	Amounts added to the total document value	Numeric, using (.) as decimal separator	10	no
EspecieDocumento	Type of document to be printed on boleto. If not specified defaults to "RC"	Characters	RC	No

8.5. BOL - GET Request Example

See below:

https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/BOL?
DataVencimento=20080410&PrazoVencimento=&NumeroDocumento=123456&ValorDocumento=1%2C253.67&NomeSacado=Meu+Primeiro+Cliente&CNPJCPFSacado=123.456.789-01

Observation: Substitute <usuario> for the appropriate user name.

8.6. BOL - Results

8.6.1. Successful Results

Boleto HTML is sent to shop.

8.6.2. Transaction Error Results

An XML format response appears in client's browser, as seen below:

```
<ResultadoBOL>
<ResultadoSolicitacaoBoleto>Erro%20-%20Valor%20Inválido</ResultadoSolicitacaoBoleto>
</ResultadoBOL>
```

8.7. BOL - Common Error Results

Result text	Description
Erro - Transação Inválida	Invalid transaction ID
Erro - Valor Inválido	Invalid amount
Erro - Estabelecimento não habilitado para Boleto Bancario	Boleto Bancario disabled for merchant
Erro - Parâmetros Incorretos	Invalid parameters
Erro - Código Cliente Inválido	Invalid merchant ID
Erro - CCID não Existe	Inexistent CCID

9. On Line Bank Transfers – Approval Request

9.1. Description

The approval request is used whenever the shopkeeper's application needs to obtain financial approval for an on line bank transfer sale. The online bank transfer request will return an HTML code which will redirect the client's browser to the bank selected.

9.2. Sending Methods

The sending method used is POST by HTTPS.

9.3. URLs

9.3.1. Main Server: www.aprovafacil.com/cgi-bin/APFW/<usuario>/TRX

9.3.2. Backup Server: backup.aprovafacil.com/cgi-bin/APFW/<usuario>/TRX

9.3.3. Backup2 Server: backup2.aprovafacil.com/cgi-bin/APFW/<usuario>/TRX

9.3.4. Test Server: teste.aprovafacil.com/cgi-bin/APFW/<usuario>/TRX

Observation: Substitute <usuario> for the appropriate user name.

9.4. Request Parameters

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
NumeroDocumento	Company Order ID	Up to 50 Alphanumeric Characters	123ABC	no
QuantidadeParcelas	Amount of Installment	Valid Value: 01	01	yes
ValorDocumento	Transaction amount	numeric with 2 decimal digits (decimal character is dot)	123.56	yes
Bandeira	Bank name	valid values are: ABNREAL /BBRASIL BANRISUL / BRADESCO HSBC / ITAU / UNIBANCO	BRADESCO	Yes
CNPJCPFSacado	Buyer's CNPJ or CPF ID	14 numeric digits 11 numeric digits	12345678123412 12345678912	no

9.5. Request Examples

```
<form action= https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/TRX method=post>
<input type=text name=NumeroDocumento value="123ABC">
<input type=text name=QuantidadeParcelas value="0 1">
<input type=text name=ValorDocumento value="123.56">
```

<input type=text name=Bandeira value="BRADESCO">
<input type=submit value="Enviar">
</form>

Observation: Substitute <usuario> for the appropriate user name.

9.6. Result Examples

9.6.1. Successful

The resulting HTML will vary with the selected bank. Below is a generic example:

```
<html>
<body onLoad="document.forms[0].submit();">
        <p> </p><p> </p><p><center>Aguarde um instante...</center></p>
<form action=https://www.bancoselecionado.com.br method=post>
        <input type=hidden name=TRANSACAO value=1>
        <input type=hidden name=FILIACAO value=123>
        <input type=hidden name=NUMPEDIDO value=123456>
</form>
</body>
</html>
```

9.6.2. Transaction Error

```
<ResultadoTRX>
<TransacaoAprovada>False</TransacaoAprovada>
<ResultadoSolicitacaoAprovacao>
        Erro%20-%20Valor%20deve%20ser%20maior%20que%20zero
</ResultadoSolicitacaoAprovacao>
</ResultadoTRX>
```

9.7. Common Error Results

Result text	Description
Erro - Valor Inválido	Invalid amount
Erro - Valor deve ser maior que zero	Amount should be greater than zero
Erro - Estabelecimento não cadastrado para a Bandeira XXX Adquirinte YYY	Merchant can not accept XXX Real payments
Erro - Cliente sem Estabelecimento de Aprovação	Merchant without acquirer
Erro - Conexão não Estabelecida	Could not connect to acquirer
Erro - Sem Servidor Aprovação	No server for approval
Erro - IP não permitido	Merchant IP address not allowed
Erro - Parâmetros Incorretos	Invalid parameters
Erro - Código Cliente Inválido	Invalid merchant ID

Result text	Description
Erro - Código de Cliente Forjado	Forged merchant ID
Erro - Modo de Operação Inválido	Invalid operation mode

10. On Line Bank Transfers – Request Confirmation Call-Back

10.1. Description

The call-back of a transference will be done by Aprova Fácil directly to the shopkeeper´s site. The developer should inform the URL that will receive the POST or GET from Aprova Fácil server. This URL will contain the data and payment confirmation of the on line bank transfer request.

10.2. Sending Methods

The sending method may be POST or GET and data can be sent via HTTP or HTTPS connection.

10.3. URL

See the following example: https://pagamento.lojacliente.com/RetornoTransacao.php

10.4. Call-Back Parameters

Name	Description	Formatting	Sample	Mandatory
NumeroDocumento	Company Order ID	up to 50 characters	123ABC	no
TransacaoAprovada	Transaction result	True or False	True	yes
CodigoAutorizacao	Authorization code returned by the Bank	Varchar texts	N12345	yes if approved
Transacao	Aprova Facil transaction ID	14 characters	73263868827369	yes

10.5. Call-Back Example

https://pagamento.lojacliente.com/RetornoTransacao.php?
NumeroDocumento=123ABC&TransacaoAprovada=True&CodigoAutorizacao=123456&Transacao=735
61234567898

10.6. Common Error Results

Result text	Description
Erro - Transação Inválida	Invalid transaction
Erro - Transação a cancelar não encontrada ou já cancelada	Transaction ID or Order ID not found or already canceled
Erro – Cancelamento Já Efetuado	Already canceled
Erro - Conexão para cancelamento não Estabelecida	Could not connect to Issuer

11. Direct Debit –Approval Request– DEB

11.1. DEB – Description

The approval request is used whenever the shopkeeper's application needs to obtain financial approval for a direct debit sale.

Aprova Fácil sends a bank collection file to the bank so that it can process the direct debit.

11.2. DEB – Sending Methods

The sending method used may be POST or GET by HTTPS connection as confidential data are being transmitted.

11.3. DEB – URL

11.2.1. Main Server: www.aprovafacil.com/cgi-bin/APFW/<usuario>/DEB

11.2.2. Backup Server: backup.aprovafacil.com/cgi-bin/APFW/<usuario>/DEB

11.2.3. Backup2 Server: backup2.aprovafacil.com/cgi-bin/APFW/<usuario>/DEB

11.2.4. Test Server: teste.aprovafacil.com/cgi-bin/APFW/<usuario>/DEB

Observation: Substitute <usuario> for the appropriate user name.

11.4. DEB – Request Parameters

Observation: If you do not wish to use an optional parameter, simply leave it blank.

Name	Description	Formatting	Sample	Mandatory
NumeroDocumento	Company Order ID	Up to 50 Alphanumeric Characters	123ABC	yes
ValorDocumento	Transaction amount	numeric with 2 decimal digits (decimal separator is a dot)	123.56	yes
NumeroBanco	Bank number	3 digits	001	yes
CodigoAgencia	Agency and Bank Account Charged	Only digits from 0 to 9, P or X	12707	yes
ContaCorrente	Bank Account Charged	Only digits from 0 to 9, P or X Alphanumeric Characters	56749	yes
TitularContaCorrente	Name of Holder of Bank Account Charged	Up to 40 characters	Shop Client	yes
CNPJCPFSacado	Buyer's CNPJ or CPF ID	14 numeric digits 11 numeric digits	12345678123412 12345678912	no

Name	Description	Formatting	Sample	Mandatory
DataNascimentoSaca do	Buyer's birth date	yyyymmdd	20071027	no
Agendamento*	Used to include, update or exclude a scheduling	One character only : I (Include), A (Update) or E (Exclude)	I	no
TransacaoAnterior	Aprova Facil transaction ID	14 numeric digits	78712879871121	If Agendamento=A or E
DiaParaAgendar	Day of each month in which charge is to be processed	dd	09	If Agendamento=I
QuantidadeMesesPar aAgendar	Number of months of scheduling	2 whole numbers	08	If Agendamento=I
NumeroTentativasN aoAprovado	Number of tries for transaction approval	2 whole numbers	04	If Agendamento=I
QuantidadeDiasEntr eTentativas	Number of days between each try	2 whole numbers	03	If Agendamento=I
DataVencimento	Scheduled date for payment, which should be greater or equal to the minimum deadline allowed by each bank.	yyyymmdd	20080820	no

* If values A or E are informed for the parameter labeled Agendamento, the parameter labeled TransacaoAnterior must be used.

Observation: The Parameter NumeroDocumento must not contain repeated values.

Observation: Each bank determines how they wish the fields CodigoAgencia and ContaCorrente filled in. Contact us for more information on how to proceed.

11.5. Request Example

Please see the code text below:

```
<form action= https://www.aprovafacil.com/cgi-bin/APFW/<usuario>/DEB method=post>
<input type=text name=NumeroDocumento value="123ABC">
<input type=text name=ValorDocumento value="123.56">
<input type=text name=Banco value="001">
<input type=text name=CodigoAgencia value="12707">
<input type=text name=ContaCorrente value="56749">
<input type=text name=TitularContaCorrente value="Cliente da Loja">
<input type=text name=CNPJCPFSacado value="11111111111">
<input type=submit value="Enviar">
</form>
```

Observation: Substitute <usuario> for the appropriate user name.

11.6. Result Examples

11.6.1. Correct Data

<Resposta><Transacao> XXXXXXXXXX</Transacao></Resposta>

Where XXXXXXXXXX is a unique number that identifies the transaction.

11.6.2. Incorrect Data

<Resposta><Erro> YYYYYYYYYY</Erro></Resposta>

Where YYYYYYYYYY is the error description.

11.6.3. Response Examples

<Resposta><Transacao>73127890046539</Transacao></Resposta>

<Resposta><Erro>Conta Corrente Inválida</Erro></Resposta>

<Resposta><Erro>Banco não Suportado</Erro></Resposta>

<Resposta><Erro>Agência Inválida</Erro></Resposta>

12. Chart