# Capture and Management Manual – WebService Komerci

| Manual's Update Description | | |
|---|---|---|
| Version | Date | Change Description |
| 2.0 | 05/13/02 | • Removal of "PAX5" and "NUMDOC5" parameters.<br>• Addition of the instruction about the handling for receiving the Sales Receipt. |
| 2.1 | 11/08/06 | • New phone number of Komerci's Support |
| 2.2 | 09/11/08 | • Parameters change and removal of the transaction's CVC2 |
| 2.3 | 07/03/09 | • New phone number of Komerci's Technical Support |
| 2.3.1 | 12/22/09 | • Manual Update<br>• Required submitting of CVC2 security code |
| 2.4 | 07/01/10 | • Addition of Visa |
| 2.5 | 09/20/10 | • Manual Update → Unification of methods into one document |

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# Content

## Introduction

WebService is a technological solution capable of integrating business applications and components among different entities, via Internet. The main benefits of using webservices are: interoperability among different and physically distant applications, portability among different platforms, integration promptness, cost reduction for data transportation and universal format.

For Komerci capture, webservice was developed in the Microsoft .NET platform, which makes it possible for developers to integrate using three different means: .NET/.NET, SOAP/XML, HTTP/POST. So, the merchant, that wishes to use webservice, doesn't need to install any new systems, as it can operate in its current platform without any changes or adjustments.

This document provides, to the Merchants, information on sales Capture and Management modules.

## Registration of Komerci technology, Products and Services

To implement the Komerci Integrated and WebService solution, it's necessary to make a previous registration at Redecard.

AVS, Mastercard SecureCode and Verified By Visa services must be previously hired for it to be enabled.

To register or hire services, merchants may contact customer service through the following numbers:

**Capital cities and Metropolitan Areas:** 4001-4433

**Other locations**: 0800-784433

| **Important** |
|---|

⚠ Developers must have the required technical knowledge to develop webservices. Due to the variety of platforms, operational systems, software and programming languages, Redecard's technical support team doesn't provide support or instructions on programming languages.

⚠ Redecard's technical support team is not authorized to suggest or specify any configuration changes to the client's environment.

⚠ All data communication and transfer will, mandatorily, occur in "server-side", that is, they will be done between the merchant´s server and Redecard´s server.

⚠ All calls to webservice must be done through secure communication (SSL / HTTPS) and in POST method.

⚠ The system is not case-sensitive in the parameters' information of WebService methods. If there is any additional detail regarding the information of a specific parameter, it will be found in its description.

## Operations and Data Flow

A webservice holds within itself public and private functions. Public functions are called "operations" or "web-methods". .

Web-methods are functions/operations which are called for each of the operations and are divided into steps, as detailed below.

**Available operations:**

| GetAuthorized | Credit transaction authorization. |
|---|---|
| GetAuthorizedAVS | Transaction capture with AVS. |
| ConfirmTxn | Transaction capture/confirmation. |
| Cupom | Request of sales receipt. |
| VoidTransaction | Void of credit transactions. |
| ConfPreAuthorization | Confirmation of pre-authorized transactions. |
| VoidPreAuthorization | Reverse pre-authorized transactions. |
| VoidConfPreAuthorization | Void confirmation of pre-authorized transactions. |
| CouncilReport | Extract transaction report. |
| SalesSumm | Extract sales summary. |
| ConsFornDistrib | Consult merchant Suppliers/Distributors. |

These are the steps of the data flow exchanged between Redecard and the merchant during a transaction's capture process. Each step is detailed below.
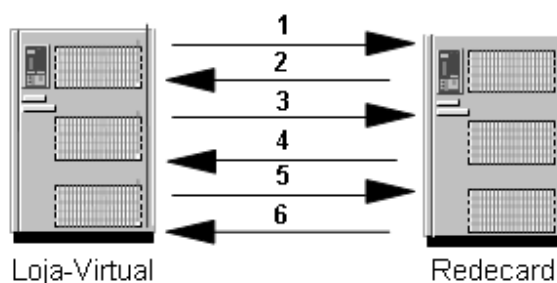
**Steps 1 and 2:**

The transaction is authorized by the card issuer in both steps. The first corresponds to sending the transaction data to Redecard´s webservice, through the "GetAuthorized" operation, and the second, to the operation return, which contains the authorization result.

**Steps 3 and 4:**

If the transaction is authorized, the merchant must confirm the transaction, through the "ConfirmTxn" operation.

**Steps 5 and 6:**

If the transaction is successfully confirmed, the merchant must request the transaction sales receipt.

## Transaction Capture and Sales Receipt Request Methods

The following methods refer to transaction capture. There are three methods: GetAuthorized, GetAuthorizedAVS and ConfirmTxn.

Besides the capture methods, it's also possible to extract the sales receipt through an HTTPS request, as explained in this manual.

### "GetAuthorized" Operation

**Description:**

Capture of credit card transactions.  If successful, this method returns information on the authorization (Sales Receipt number, Authorization Number and other information). If an error occurs or the authorization is denied, it sends a code and message informing the reason for the transaction denial.

**Scope:**

| | |
|---|---|
| **Address** | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
| **Layers** | .NET, SOAP/XML, Request HTTP/POST |
| **Protocol** | Secure SSL |

**Parameters:**

The merchantmust send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|---|---|---|
| TOTAL | 10 | Sales total amount |
| TRANSACAO | 2 | Transaction type code |
| PARCELAS | 2 | Number of installments |
| FILIACAO | 9 | Supplying store membership number |
| NUMPEDIDO | 16 | Order number generated by the merchant |
| NRCARTAO | 16 | Card number |
| CVC2 | 3 | CVC2 |
| MES | 2 | Card expiration month |
| ANO | 2 | Card expiration year |
| PORTADOR | 50 | Cardholder name |
| IATA | 9 | Optional parameter for Airline Companies. N/A – Send parameter blank |
| DISTRIBUIDOR | 9 | Membership number of distributing store / card issuer, when B2B |
| CONCENTRADOR | 5 | N/A – Send parameter blank |
| TAXAEMBARQUE | 10 | Boarding tax. Optional. Used only for Airline Companies. |
| ENTRADA | 10 | N/A – Send parameter blank |
| NUMDOC1 a NUMDOC4 | 16 | Free text – **On this step**, send parameter blank |
| PAX1 a PAX4 | 26 | Free text – **On this step**, send parameter blank |
| CONFTXN | 1 | Confirmation "Flag" |
| ADD_Data | N/I | N/A – Send parameter blank |

⚠ **It's mandatory to send all the parameters detailed above. Even if some of these are not used, the merchant must send blank values.**

⚠ **Cardholder data (expiration, CVC2, etc) must not be stored by the merchant. It will only be transported when requesting the transaction authorization code.**

## TOTAL

⚠ **The "TOTAL" parameter must contain the total amount of the transaction.**

⚠ **This amount must be separated by a "." (point). Example: 34.60**

⚠ **It must not contain the thousand separators.**

⚠ **It's mandatory to have two decimal places.**

⚠ **The TOTAL parameter must be sent in all steps and always the same way.**

## TRANSACÃO

The "TRANSACAO" parameter must contain the transaction type code to be processed, according to the following table:

| Transaction type | Code |
|---|---|
| Full payment/Cash | 04 |
| Issuer installments | 06 |
| Merchant installments | 08 |
| Pre-authorization | 73 |
| IATA full payment/cash | 39 |
| IATA installments | 40 |

⚠ **"IATA" transactions (Codes 39 and 40) are specific to Airline Companies' sales operations.**

**In case of Pre-Authorization,** the "TRANSACAO" parameter must contain the code "73". This code is exclusive for full payment/cash or installments transactions and the selection of the form of payment (full payment/cash or installments) is done at the transaction confirmation (which will be later described in this document).

The code "73" refers only to the authorization request. It's only at the confirmation step that it will be informed if the transaction will be full payment/cash or installments. When installments option is chosen, the number of installments must be informed.

## PARCELAS

The "PARCELAS" parameter must contain the number of installments of the transaction.
It must be filled out with the value "00" (zero zero) when the "TRANSACAO" parameter is "04" or "39", that is, full payment/cash.

⚠ **It's not possible to make installment transactions for cards issued outside of Brazil. That is a regulation from foreign issuers.**

## FILIACAO

The "FILIACAO" parameter must contain the membership number of the merchant registered at Redecard.

## NUMPEDIDO

The "NUMPEDIDO" parameter must contain the order number of the product/service requested by the user. This field may be filled out according to the merchant's internal policy and must be "handled" when orders are duplicated by the store's own system. The Redecard system doesn't validate this parameter.

⚠ **Do not use special characters (accentuation)**

⚠ **Mandatory field**

## NRCARTAO

The "NRCARTAO" parameter must contain the cardholder's credit card number, and the card can be MasterCard, Diners or Visa. Debit cards are not accepted.

## CVC2

This parameter is mandatory except for merchants that work with recurring sales, which must send this field blank.

⚠ **Cardholder data (expiration card, CVC2, etc) must not be stored by the merchant. It will only be transported when requesting the transaction authorization code.**

⚠ **A recurring Sale is every full payment/cash transaction with constant periodicity. For example: Magazines and newspapers subscriptions.**

## MES

The "MES" parameter must contain the expiration month of the cardholder's card with two digits (MM FORMAT).

## ANO

The "ANO" parameter must contain the expiration year of the cardholder's card with two digits (YY FORMAT).

## PORTADOR

The "PORTADOR" parameter must contain the cardholder's name as informed by him/her.
⚠ **This parameter is not validated by the card's issuer.**

## IATA (Optional Parameter)

The "IATA" parameter must contain the IATA Code of the supplying merchant. Filling out this parameter is optional. This parameter must be sent only for Airline Companies merchants.

The IATA code is an Airline Company registration provided by the International Air Transport Association (IATA). This information is neither stored nor validated by Redecard, it's only transported during the transaction.

## DISTRIBUIDOR

The "DISTRIBUIDOR" parameter must contain the distributing merchant's membership number. It must only be filled out if the merchant on the field "FILIACAO" is a supplier. If not, the parameter must be sent blank.

## CONCENTRADOR

The "CONCENTRADOR" parameter doesn't apply to the retail segment, therefore, it must be sent blank.

## TAXAEMBARQUE (Optional Parameter)

The "TAXAEMBARQUE" parameter must contain the amount that refers to the transaction's boarding tax. It must only be filled out for Airline Companies. If that's not the case, it must be sent blank.

## ENTRADA

The "ENTRADA" parameter doesn't apply to the retail segment, therefore it must be sent blank. This parameter only applies to the Airline Companies' segment.

## PAX1

Filling out the "PAX1" parameter is optional for businesses that are not Airline Companies. In this case, this field may be used freely for additional data. If the order number exceeds the 16 digits allowed for NUMPEDIDO, the other digits may be included in PAX1. For Airline Companies, this parameter is mandatory and must contain the name of the main passenger.

## PAX2, PAX3 and PAX 4

These parameters are sent only when the transaction to be confirmed is from an Airline Company. Filling out the "PAX2", "PAX3" and "PAX4" parameters is optional. They may be used for registering passengers' names that correspond to the ticket numbers informed in the corresponding "NUMDOC" parameters.

## NUMDOC1, NUMDOC2, NUMDOC3 and NUMDOC4

These parameters are sent only when the transaction is from an Airline Company. Filling out the "NUMDOC2", NUMDOC3" and NUMDOC4" parameters is optional. They may be used for registering the ticket number of the transacted tickets. The only exception is for the "NUMDOC1" parameter, which is mandatory.

**Automatic confirmation - CONFTXN**

When this parameter is sent with the "S" value, the "ConfirmTxn" operation is automatically enabled.

⚠ **Please be careful when using this option. There's no guarantee that the operation will be enabled. When using this option, it's mandatory that the CONFCODRET and CONFMSGRET parameters, returned on step 2, be handled. If the value on field CONFCODRET is not 0, it will be necessary to enable the "ConfirmTxn" operation to confirm the transaction, as described in this manual.**

⚠ **This operation will only be enabled if the transaction is successfully authorized.**

**ADD_DATA (Optional Parameter)**

The ADD_DATA parameter must contain the complementary information from business card transactions. This parameter must only be sent to Airline Companies, Hotels and Car Rental merchants.

## Attention

⚠ **It's mandatory to send all the parameters detailed above. Even if some of them are not used, they must be sent blank by the merchant.**

**Return from "GetAuthorized" Operation**

The return message from the "GetAuthorized" operation will be sent in XML:

```xml
<?xml version="1.0" encoding="utf-8"?>
<AUTHORIZATION>
<CODRET>9</CODRET>
<MSGRET>Mensagem</MSGRET>
<NUMPEDIDO>string</NUMPEDIDO>
<DATA>99999999</DATA>
<NUMAUTOR>999999</NUMAUTOR>
<NUMCV>999999999</NUMCV>
<NUMAUTENT>999999</NUMAUTENT>
<NUMSQN>999999999</NUMSQN>
<ORIGEM_BIN>XXX</ORIGEM_BIN>

<CONFCODRET>9</CONFCODRET>
<CONFMSGRET>Mensagem</CONFMSGRET>

<IATA>999999999</IATA>
<DISTRIBUIDOR>999999999999</DISTRIBUIDOR>
</AUTHORIZATION>
```

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| CODRET | 2 | Return code |
| MSGRET | 160 | Return code description |
| DATA | 8 | Transaction date |
| NUMPEDIDO | 16 | Order number |
| NUMAUTOR | 6 | Authorization number |
| NUMCV | 9 | Sales Receipt Number (NSU) |
| NUMAUTENT | 27 | Authentication Number |
| NUMSQN | 12 | Unique sequential number |
| ORIGEM_BIN | 3 | Code of issuer country |
| DISTRIBUIDOR | 12 | Membership number of distributor / cardholder, when B2B |
| IATA | 12 | N/A |
| CONFCODRET | 2 | Automatic confirmation return code |
| CONFMSGRET | 160 | Return code description |

**CODRET**

The "CODRET" parameter will return an error code if there's any problem in the transaction processing or if, for any reason, the transaction is not authorized by the issuer. See table "Error Code for Authorization". This code is returned only for non-authorized transactions.

**MSGRET**

The "MSGRET" parameter will return the error message that corresponds to the error code "CODRET" if there's any problem in the transaction processing or if the issuer, for any reason, doesn't authorize it. See table "Error Code for Authorization".

**DATA**

The "DATA" parameter will return the date on which the transaction was authorized (in the format YYYYMMDD).

**NUMPEDIDO**

The "NUMPEDIDO" parameter will return the order number that was informed by the merchant at the operation call. Redecard's system will not check this parameter.

**NUMAUTOR**

The "NUMAUTOR" parameter will return the transaction's authorization number.

**NUMCV**

The "NUMCV" parameter will return the transaction's sales receipt number.

**NUMAUTENT**

The "NUMAUTENT" parameter will return the transaction's authentication number.

**NUMSQN**

The "NUMSQN" parameter will return the transaction's unique sequential number.

**ORIGEM_BIN**

The "ORIGEM_BIN" parameter will return the nationality code of the validated card's issuer. The merchant may choose to reject transactions of foreign issuers (issued outside Brazil) by handling this parameter.
For Mastercard and Diners, this parameter returns the three character pattern to designate the issuer country (Example: BRA for Brazil). For Visa, this parameter returns the two character pattern to designate the issuer country (Example: BR for Brazil).

⚠ **The merchant may choose to reject transactions of foreign issuers by handling this parameter.**

⚠ **If the Merchant chooses to accept cards issued in foreign countries, it must always analyze or monitor the request before confirming the transaction.**

**DISTRIBUIDOR**

The "DISTRIBUIDOR" parameter will return the membership number of the distributing merchant informed on the first step.

**IATA (Optional Parameter)**

The "IATA" parameter must contain the IATA Code of the supplying merchant. Filling out this parameter is optional. This parameter must only be sent to Airline Companies' merchants.

The IATA Code is a registration of the Airline Company provided by the International Air Transport Association (IATA).  This information is neither stored nor validated by Redecard, it's only transported during the transaction.

**CONFCODRET**

The "CONFCODRET" parameter will reply the return code of the transaction's confirmation. This parameter will only be returned if the transaction has been authorized and the CONFTXN parameter, sent in the first step of the transaction, has been filled out with the "S" value. See the table "Return Codes and Messages" of step "4 – Return from "ConfTxn" Operation.

⚠ **If you get a value other than zero, the merchant must handle the code and, if necessary, proceed with the ConfirmTxn web-method call.**

**CONFMSGRET**

The "CONFMSGRET" parameter will reply the return message of the transaction's confirmation that corresponds to the returned CONFCODRET. This parameter will only be returned if the transaction has been authorized and the CONFTXN parameter, sent in the first step of the transaction, has been filled out with the "S" value. See the table "Return Codes and Messages" of step "4 – Return from "ConfTxn" Operation.

➔ **Verifying approval or non-approval**

A transaction must be assumed as APPROVED only when the CODRET parameter is zeroed in (0) and the NUMCV parameter is not blank. In any other situation, the transaction is NOT APPROVED.

⚠ **For transactions that are not approved, the flow ends at this step.**

**Request and Response from "GetAuthorized" Operation**

## SOAP/XML:

The following frame is an example of SOAP envelope. The **fields** must have values inputted according to the transaction.

```
REQUEST:
POST /pos_virtual/wskomerci/cap.asmx HTTP/1.1
Host: ecommerce.redecard.com.br
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://ecommerce.redecard.com.br/GetAuthorized"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="https://www.w3.org/2001/XMLSchema"
xmlns:soap="https://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetAuthorized xmlns="http://ecommerce.redecard.com.br">
      <Total>string</Total>
      <Transacao>string</Transacao>
      <Parcelas>string</Parcelas>
      <Filiacao>string</Filiacao>
      <NumPedido>string</NumPedido>
      <Nrcartao>string</Nrcartao>
      <CVC2>string</CVC2>
      <Mes>string</Mes>
      <Ano>string</Ano>
      <Portador>string</Portador>
      <IATA>string</IATA>
      <Distribuidor>string</Distribuidor>
      <Concentrador>string</Concentrador>
      <TaxaEmbarque>string</TaxaEmbarque>
      <Entrada>string</Entrada>
      <Pax1>string</Pax1>
      <Pax2>string</Pax2>
      <Pax3>string</Pax3>
      <Pax4>string</Pax4>
      <Numdoc1>string</Numdoc1>
      <Numdoc2>string</Numdoc2>
      <Numdoc3>string</Numdoc3>
      <Numdoc4>string</Numdoc4>
      <conftxn>string</conftxn>
    </GetAuthorized>
  </soap:Body>
</soap:Envelope>
```

## RESPONSE:

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<AUTHORIZATION>
  <CODRET> string </CODRET>
  <MSGRET> string </MSGRET>
  <NUMPEDIDO> string </NUMPEDIDO>
  <DATA> string </DATA>
  <NUMAUTOR> string </NUMAUTOR>
  <NUMCV> string </NUMCV>
  <NUMAUTENT> string </NUMAUTENT>
  <NUMSQN> string </NUMSQN>
  <ORIGEM_BIN> string </ORIGEM_BIN>
  <CONFCODRET> string </CONFCODRET>
  <CONFMSGRET> string </CONFMSGRET>
  <IATA> string </IATA>
  <DISTRIBUIDOR> string </DISTRIBUIDOR>
</AUTHORIZATION>
```

## "GetAuthorizedAVS" Operation

**Description:**

Capture transactions with AVS service. If successful, this method returns information regarding authorization (Sales Receipt number, Authorization Number, etc). It also sends specific AVS data regarding validation of registration data (Address, Zip Code and CPF "taxpayers ID"). If an error occurs or the authorization is denied, it sends a message informing the reason for the transaction denial.

The Data Verification Service (AVS) is an online service that verifies registration data from cardholders of MasterCard and Diners Club International, issued in Brazil.

It's offered to registered merchants that sales are made through direct marketing and electronic commerce, in order to provide greater protection in sales made without the physical presence of the cardholder.

At the time of purchase, the merchant, via AVS Service, may validate against the card's issuer, the CPF (Taxpayer's ID) number and numerical data from the cardholder's billing address.

⚠ **Pre-authorized transactions may be captured with AVS.**

⚠ **Implementation of AVS depends on the hiring of additional services.**

⚠ **This option is not available for VISA transactions.**

⚠ **If the AVS = "S" parameter is informed, capture through Secure Code will not be enabled, regardless of the service being hired from Redecard. The AVS service inhibits the Secure Code.**

**Scope:**

| Address: | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---|---|
| Layers: | .NET, SOAP/XML, Request HTTP/POST |
| Protocol: | Secure SSL |

**Parameters:**

The merchant must send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|---|---|---|
| TOTAL | 10 | Total amount of purchase |
| TRANSACAO | 2 | Transaction Type Code |
| PARCELAS | 2 | Number of installments |
| FILIACAO | 9 | Membership number of the supplying merchant |
| NUMPEDIDO | 16 | Order number generated by the merchant |
| NRCARTAO | 16 | Card number |
| CVC2 | 3 | CVC2 |
| MES | 2 | Expiration month of the card |
| ANO | 2 | Expiration year of the card |
| PORTADOR | 50 | Cardholder's name |
| IATA | 9 | Optional Parameter for Airline Company. N/A – Send |

| | | parameter with blank value |
|---|---|---|
| DISTRIBUIDOR | 9 | Membership number of distributor / cardholder, when B2B |
| CONCENTRADOR | 5 | N/A – Send parameter with blank value |
| TAXAEMBARQUE | 10 | Boarding tax. Optional. Used only for Airline Companies. |
| ENTRADA | 10 | N/A – Send parameter with blank value |
| NUMDOC1 a NUMDOC4 | 16 | Free text – **In this step**, send parameter with blank value |
| PAX1 a PAX4 | 26 | Free text – **In this step**, send parameter with blank value |
| CONFTXN | 1 | Confirmation "Flag" |
| ADD_Data | N/I | N/A – Send parameter with blank value |

⚠ **It's mandatory to send all the parameters detailed above. Even if some of these are not used, the merchant must send blank values.**

⚠ **Cardholder data (expiration card, CVC2, etc) must not be stored by the merchant. It will only be transported when requesting the transaction authorization code.**

## TOTAL

⚠ **The "TOTAL" parameter must contain the total amount of the transaction.**

⚠ **This amount must be separated by a "." (point). Example: 34.60**

⚠ **It must not contain thousand separators.**

⚠ **It's mandatory to have two decimal places.**

⚠ **The TOTAL parameter must be sent in all steps and always the same way.**

## TRANSACÃO

The "TRANSACAO" parameter must contain the code of the type of transaction to be processed, according to the following table:

| Transaction Type | Code |
|---|---|
| Full payment/cash | **04** |
| Issuer  installments | **06** |
| Merchant  installments | **08** |
| Pre-authorization | **73** |
| IATA full payment/cash | **39** |
| IATA  installments | **40** |

⚠ **"IATA" transactions (Codes 39 and 40) are specific for Airline Companies' sales operations.**

**In case of Pre-Authorization,** the "TRANSACAO" parameter must contain the code "73". This code is exclusive for full payment/cash or installments transactions and the selection of the form of payment (full payment/cash or installments) is done at the transaction confirmation (which will be later described in this document).

The code "73" refers only to the authorization request. It's only at the confirmation step that it will be informed if the transaction will be full payment/cash or installments. When installments is chosen, the number of installments must be informed.

## PARCELAS

The "PARCELAS" parameter must contain the number of installments of the transaction.
It must be filled out with the value "00" (zero zero) when the "TRANSACAO" parameter is "04" or "39", that is, full payment/cash.

⚠ **It's not possible to make installments transactions for cards issued outside Brazil. That is a regulation from foreign issuers.**

## FILIACAO

The "FILIACAO" parameter must contain the membership number of the merchant registered at Redecard.

## NUMPEDIDO

The "NUMPEDIDO" parameter must contain the order number of the product/service requested by the user. This field may be filled out according to the merchant's internal policy and must be "handled" when orders are duplicated by the store's own system. The Redecard system doesn't validate this parameter.

⚠ **Do not use special characters (accentuation)**

⚠ **Mandatory field**

## NRCARTAO

The "NRCARTAO" parameter must contain the cardholder's credit card number, and the card can be MasterCard, Diners or Visa. Debit cards are not accepted.

## CVC2

This parameter is mandatory except for merchants that work with recurring sales, which must send this field blank.

⚠ **Cardholder data (expiration card, CVC2, etc) *must not* be stored by the merchant. It will only be transported when requesting the transaction authorization code.**
⚠ **A recurring Sale is every full payment/cash transaction with constant periodicity. For example: Magazines and newspapers subscriptions.**

**MES**

The "MES" parameter must contain the expiration month of the cardholder's card with two digits (MM FORMAT).

**ANO**

The "ANO" parameter must contain the expiration year of the cardholder's card with two digits (YY FORMAT).

**PORTADOR**

The "PORTADOR" parameter must contain the cardholder's name as informed by him/her.

⚠ **This parameter is not validated by the card's issuer.**

**IATA (Optional Parameter)**

The "IATA" parameter must contain the IATA Code of the supplying merchant. Filling out this parameter is optional. This parameter must be sent only for Airline Companies merchants.

The IATA code is a registration of the Airline Company provided by the International Air Transport Association (IATA). This information is neither stored nor validated by Redecard, it's only transported during the transaction.

**DISTRIBUIDOR**

The "DISTRIBUIDOR" parameter must contain the distributing merchant membership number. It must only be filled out if the merchant on the field "FILIACAO" is a supplier. If not, the parameter must be sent blank.

**CONCENTRADOR**

The "CONCENTRADOR" parameter doesn't apply to the retail segment, therefore it must be sent blank.

**TAXAEMBARQUE (Optional Parameter)**

The "TAXAEMBARQUE" parameter must contain the amount that refers to the transaction's boarding tax. It must only be filled out for Airline Companies. If that's not the case, it must be sent blank.

**ENTRADA**

The "ENTRADA" parameter doesn't apply to the retail segment, therefore it must be sent blank. This parameter only applies to the Airline Companies' segment.

**PAX1**

Filling out the "PAX1" parameter is optional for businesses that don't refer to Airline Companies. In this case, this field may be used freely for additional data. If the order number exceeds the 16 digits allowed for NUMPEDIDO, the other digits may be included in PAX1. For Airline Companies, this parameter is mandatory and must contain the name of the main passenger.

## PAX2, PAX3 e PAX 4

These parameters are sent only when the transaction to be confirmed is from an Airline Company.
Filling out the "PAX2", "PAX3" and "PAX4" parameters is optional. They may be used for registering passengers' names that correspond to the ticket numbers informed in the corresponding "NUMDOC" parameters.

## NUMDOC1, NUMDOC2, NUMDOC3 and NUMDOC4

These parameters are sent only when the transaction is from an Airline Company.
Filling out the "NUMDOC2", NUMDOC3" and "NUMDOC4" parameters is optional. They may be used for registering the ticket numbers from the transacted tickets. The only exception is for the "NUMDOC1" parameter, which is mandatory.

## Automatic confirmation - CONFTXN

When this parameter is sent with the "S" value, the "ConfirmTxn" operation is automatically enabled.

⚠ **Please be careful when using this option. There's no guarantee that the operation will be enabled. When using this option, it's mandatory that the CONFCODRET and CONFMSGRET parameters, returned on step 2, be handled. If the value on field CONFCODRET is not 0, it will be necessary to enable the "ConfirmTxn" operation to confirm the transaction, as described in this manual.**

⚠ **This operation will only be enabled if the transaction is successfully authorized.**

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| CPF | 11 | CPF (Taxpayer's Id) number |
| ENDERECO | 50 | Address |
| NUM1 | 6 | Address number |
| COMPLEMENTO | 30 | Address complement |
| CEP1 | 5 | Zip Code |
| CEP2 | 3 | Zip Code Complement |

## CPF

The parameter "CPF" must contain the CPF (Taxpayer's Id) number of the main cardholder, without periods and/or dashes.

**ENDERECO**

The "ENDERECO" parameter must contain the cardholder's billing address, without the number and/or complement.

**NUM1**

The "NUM1" parameter must contain the cardholder's billing address number, without the complement.

**COMPLEMENTO**

The "COMPLEMENTO" parameter must contain the cardholder's billing address complement, if there is one.

**CEP1 E CEP2**

The "CEP1" and "CEP2" parameters must contain the Zip Code of the cardholder's billing address, in the format XXXXX-YYY, where the first parameter must contain the first 5 digits and the second, the 3 last digits.

⚠ **The CONFTXN parameter is not available in this operation, since the merchant may make different decisions according to the AVS response.**

### Return from "GetAuthorizedAVS" Operation

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| CODRET | 2 | Return code |
| MSGRET | 160 | Return code description |
| DATA | 8 | Transaction date |
| NUMPEDIDO | 16 | Order number |
| NUMAUTOR | 6 | Authorization Number |
| NUMCV | 9 | Sales Receipt Number (NSU) |
| NUMAUTENT | 27 | Authentication Number |
| NUMSQN | 12 | Unique sequential number |
| ORIGEM_BIN | 3 | Code of issuer country |
| DISTRIBUIDOR | 12 | Membership number of distributor / cardholder, when B2B |
| IATA | 12 | N/A |

## CODRET

The "CODRET" parameter will return an error code if there's any problem in transaction processing or if, for any reason, the transaction is not authorized by the issuer. See the table "Error Code for Authorization". This code is returned only for non-authorized transactions.

## MSGRET

The "MSGRET" parameter will return the error message that corresponds to the error code "CODRET" if there's any problem in transaction processing or if the issuer, for any reason, doesn't authorize it. See the table "Error Code for Authorization".

## DATA

The "DATA" parameter will return the date on which the transaction was authorized (in the format YYYYMMDD).

## NUMPEDIDO

The "NUMPEDIDO" parameter will return the order number that was informed by the merchant at the operation call. Redecard's system will not check this parameter.

## NUMAUTOR

The "NUMAUTOR" parameter will return the transaction's authorization number.

**NUMCV**

The "NUMCV" parameter will return the transaction's sales receipt number.

**NUMAUTENT**

The "NUMAUTENT" parameter will return the transaction's authentication number.

**NUMSQN**

The "NUMSQN" parameter will return the transaction's unique sequential number.

**ORIGEM_BIN**

The "ORIGEM_BIN" parameter will return the nationality code of the validated card's issuer. The merchant may choose to reject transactions of foreign issuers (issued outside Brazil) by handling this parameter.
For Mastercard and Diners, this parameter returns the three character pattern to designate the issuer country (Example: BRA for Brazil). For Visa, this parameter returns the two character pattern to designate the issuer country (Example: BR for Brazil).

⚠ **The merchant may choose to reject transactions of foreign issuers by handling this parameter.**

⚠ **If the Merchant chooses to accept cards issued in foreign countries, it must always analyze or monitor the request before confirming the transaction.**

**DISTRIBUIDOR**

The "DISTRIBUIDOR" parameter will return the membership number of the distributing merchant informed in the first step.

**IATA (Optional Parameter)**

The "IATA" parameter must contain the IATA Code of the supplying merchant. Filling out this parameter is optional. This parameter must only be sent to Airline Companies' merchants.

The IATA Code is a registration of the Airline Company provided by the International Air Transport Association (IATA). This information is neither stored nor validated by Redecard, it's only transported during the transaction.

If the transaction is approved and successful, Redecard will send to the merchant, the return from the "GetAuthorizedAVS" operation in XML, including the following parameters (plus the other parameters already normally returned in this step, according to the instruction in this manual.

```
<RESPAVS>9</RESPAVS>
<MSGAVS>Mensagem</MSGAVS>
```

| NAME | SIZE | DESCRIPTION |
|---|---|---|
| RESPAVS | 2 | AVS return code |
| MSGAVS | 80 | AVS return message |

**RESPAVS**

The "RESPAVS" parameter will return the code which refers to the conference of the registration data entered by the cardholder.

**MSGAVS**

The "MSGAVS" parameter will return the AVS message that corresponds to the "RESPAVS" code.

The data that may be returned in the "RESPAVS" and "MSGAVS" parameters are:

| CODE (RESPAVS) | DESCRIPTION (MSGAVS) |
|---|---|
| W | Yes, all digits match. |
| X | Zip Code and CPF (taxpayer's Id) match, Address doesn't match. |
| Z | Address and CPF (taxpayer's Id) match, Zip Code doesn't match. |
| Y | Zip Code matches, CPF (taxpayer's Id) and Address don't match. |
| A | CPF (taxpayer's Id) matches, Zip Code and Address don't match. |
| U | Zip Code and CPF (taxpayer's Id) don't match, Address matches. |
| S | Zip Code and address match, CPF (taxpayer's Id) doesn't match. |
| N | Nothing matches. |

In some situations, the "RESPAVS" parameter may return codes that consist of two numerical digits, according to the table below. The "MSGAVS" parameter, in this case, will return a message that corresponds to that code.

| CODE (RESPAVS) | DESCRIPTION (MSGAVS) | TRANSACTION REPORT CODE * |
|---|---|---|
| 53 | Invalid Transaction (AVS not hired) | R |
| 74 | Institution has no communication | R |
| 81 | The bank does not belong to the network or Corporate Card | B |

⚠ **In the situations above, the codes displayed on Komerci's Transaction Report are the ones included on column "TRANSACTION REPORT CODE".**

⚠ **If a code different from these mentioned above is returned, see topic "Return Codes and Messages Table".**

⚠ <u>**Guidance to the developer:**</u> **The decision to confirm or deny a transaction according to its return code is a decision from the merchant. When confirming it, the merchant must follow the instructions on this manual. To reject the transaction, just end the flow in this step.**

⚠ **Handling of any information returned by Redecard, it's the merchant's entire responsibility.**

**➔ Verifying approval or non-approval**

A transaction must be assumed as APPROVED only when the CODRET parameter is zeroed in and the NUMCV parameter is not blank. In any other situation, the transaction is denied or not approved.

⚠ **For transactions not approved, the flow ends at this step.**

⚠ **An error on the "RESPAVS" parameter doesn't mean that the transaction was denied. The result of this parameter is not conditioned to the issuer's approval or non-approval of the transaction.**

# SOAP/XML:

The frame below is an example of SOAP envelope. The **fields** must have values inputted according to the transaction.

⚠ **This is a brief example and its goal is to demonstrate the AVS operation. To view the entire example, please see the "WebService Manual".**

**REQUEST:**
```
POST /pos_virtual/wskomerci/cap.asmx HTTP/1.1
Host: ecommerce.redecard.com.br
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://ecommerce.redecard.com.br/GetAuthorizedAVS"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetAuthorizedAVS xmlns="http://ecommerce.redecard.com.br">
            .
            .
            .
      <CPF>string</CPF>
      <Endereco>string</Endereco>
      <Num1>string</Num1>
      <Complemento>string</Complemento>
      <Cep1>string</Cep1>
      <Cep2>string</Cep2>
            .
            .
            .
    </GetAuthorizedAVS>
  </soap:Body>
</soap:Envelope>
```

**RESPONSE:**
```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<AUTHORIZATION>
            .
            .
            .
  <RESPAVS> string </RESPAVS>
  <MSGAVS> string </MSGAVS>
            .
            .
            .
  <DISTRIBUIDOR> string </DISTRIBUIDOR>
</AUTHORIZATION>
```

## "ConfirmTxn" Operation

### Description:

Confirm transactions that go through the authorization process. If a transaction has been approved by the issuer and it has not been automatically run by the "S" value from the "CONFTXN" parameter, the merchant will have to confirm it.

The confirmation step must only take place when the previous step (Authorization) has not returned any errors and has returned authorization data, like: NUMCV, NUMAUTOR and NUMSQN.That is, this step must only be run if the transaction had a positive return.

### Scope:

| Address | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---------|------------------------------------------------------------------|
| Layers | .NET, SOAP/XML, Request HTTP/POST |
| Protocol | Secure SSL |

### Parameters:

If the transaction has been approved by the issuer and it has not been automatically run by the "S" value from the "CONFTXN" parameter, the merchant must confirm it by calling the ConfirmTxn operation, sending the following parameters:

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| DATA | 8 | Transaction date |
| NUMSQN | 12 | Unique sequential number |
| NUMCV | 9 | Sales receipt number |
| NUMAUTOR | 6 | Authorization number |
| PARCELAS | 2 | Transaction installments number |
| TRANSORIG | 2 | Transaction type code |
| TOTAL | 15 | Transaction amount |
| FILIACAO | 9 | Supplying merchant membership |
| DISTRIBUIDOR | 9 | Membership of the distributing merchant / cardholder, when B2B |
| NUMPEDIDO | 16 | Order number |
| NUMDOC1 a NUMDOC4 | 16 | Free text (OBS: NUMDOC1 is mandatory) |
| PAX1a PAX4 | 26 | Free text |

### DATA

The "DATA" parameter must contain the date of the transaction authorization (in format YYYYMMDD), which was informed by Redecard on the field "DATA" in the second step of the flow.

### NUMSQN

The "NUMSQN" parameter must contain the transaction unique sequential number which was informed by Redecard on the field "NUMSQN" in the second step of the flow.

**NUMCV**

The "NUMCV" parameter must contain the transaction's sales receipt number which was informed by Redecard on the field "NUMCV" in the second step of the flow.

**NUMAUTOR**

The "NUMAUTOR" parameter must contain exactly the same authorization number of the transaction which was returned by Redecard on the field "NUMAUTOR" in the second step of the flow. If, for example, the number 012345 was returned, the virtual store must send the number 012345 and not 12345 (the merchant must not omit the "0" - zero).

In some situations, this parameter may contain letters. Therefore, it will also be necessary to return exactly the same information that was sent. For example, if it has capital letters, it can't be sent in small letters, as it will not be confirmed.

**PARCELAS**

The "PARCELAS" parameter must contain the number of installments of the transaction which was informed by the virtual store in the field "PARCELAS" in the first step of the flow.

> ⚠ **Cards issued in foreign countries may not contain installments transactions; this is an instruction from international issuers.**

**TRANSORIG**

The "TRANSORIG" parameter must contain the transaction type code which was informed by the merchant on the field "TRANSACAO" in the first step of the flow.

**TOTAL**

The "TOTAL" parameter must contain the transaction amount that was informed by the virtual store on the field "TOTAL" in the first step of the flow. It's mandatory that this amount be separated by a"." (point). For example: 34.60 It's mandatory to have two decimal places, that is, the same way it was sent in the first step. It must not contain thousand separators.

**FILIACAO**

The "FILIACAO" parameter must contain the membership number of the supplying merchant (registered at Redecard), which was informed by the merchant on the field "FILIACAO" in the first step of the flow.

**DISTRIBUIDOR**

The "DISTRIBUIDOR" parameter must contain the distributing merchant's membership number which was informed by the virtual store on the field "DISTRIBUIDOR" in the first step of the flow. This parameter must only be filled out if the merchant on the field "FILIACAO" is a supplier. If not, the parameter must be sent blank.

**NUMPEDIDO**

The "NUMPEDIDO" parameter must contain the order number which was authorized and returned by Redecard on the field "NUMPEDIDO" in the second step of the flow.

**NUMDOC1, NUMDOC2, NUMDOC3 and NUMDOC4**

These parameters are sent only when the transaction to be confirmed is from an Airline Company.

Filling out the "NUMDOC2", NUMDOC3" and "NUMDOC4" parameters is optional. They may be used for registering the ticket numbers from the transacted tickets. The only exception is for "NUMDOC1", which is a mandatory parameter for Airline Companies.

**PAX1, PAX2, PAX3 and PAX 4**

These parameters are sent only when the transaction to be confirmed is from an Airline Company. Filling out the "PAX2", "PAX3" and "PAX4" parameters is optional. The only exception is for "PAX1", which is a mandatory parameter for Airline Companies.
They may be used for registering passengers names which correspond to the ticket numbers informed in the "NUMDOC" parameter.

## Attention

⚠ **If, for any reason, the merchant chooses <u>not</u> to confirm the transaction, it must not run this step of the flow. In this case, the transaction will be automatically undone.**

⚠ **Undone transactions are neither billed to the Merchant nor debited from the customer's card.**

⚠ **After authorization of the transaction, the merchant will have <span style="color:red">2 minutes after authorization return</span> to confirm it. If the transaction is not confirmed during this period, it will be automatically undone.**

⚠ **The transaction confirmation means that the merchant wishes to proceed with the transaction and is not linked to processing or not the order.**

**Return from "ConfirmTxn" Operation**

The return message from the "ConfirmTxn" operation will be sent in XML format:

```
<CONFIRMATION>
    <CODRET>99</CODRET>
    <MSGRET>Mensagem</MSGRET>
</CONFIRMATION>
```

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| CODRET | 2 | Return code |
| MSGRET | 200 | Return message |

## CODRET

The "CODRET" parameter will return the transaction's return code.

## MSGRET

The "MSGRET" parameter will return the transaction message that refers to the return code "CODRET".

**Return Codes and Messages:**

**0 = "CONFIRMATION WAS SUCCESSUL"** → Confirmation was successful and completed;

**1 = "ALREADY CONFIRMED"** → The transaction was already previously confirmed;

**2 = "TRANSACTION DENIED"** → The confirmation transaction was denied by the authorizer;

**3 = "TRANSACTION UNDO"** → The transaction was undone since the two minutes available for confirmation was exceeded;

**4 = "TRANSACTION VOIDED"** → The transaction was previously voided by the transaction void process;

**5 = "TRANSACTION VOIDED"** → The transaction was previously voided by the transaction void process;

**8 = "DATA DOESN'T MATCH"** → Total and Order Number data doesn't match the Receipt and Authorization number sent as parameter;

**9 = "TRANSACTION NOT FOUND"** → No transaction was found for the corresponding fields sent as parameter: NUMCV, NUMAUTOR and DATA;

**88 = "MISSING DATA, TRANSACTION CANNOT BE COMPLETED"** → Mandatory information was not informed as a parameter (DATA, TRANSACAO, TRANSORIG, PARCELAS, TOTAL, NUMPEDIDO, NUMAUTOR, NUMCV, NUMSQN and FILIACAO)

→ The merchant must handle each of the return messages and, depending on the situation, inform de cardholder.

➔ If no data is returned, the merchant must sent the information again (repeat the third step of the flow), within the 2 minutes after authorization.

**Request and Response from "ConfirmTxn" Operation**

# SOAP/XML:

The following frame is an example of SOAP envelope. The **fields** must have values inputted according to the transaction.

**REQUEST :**

```
POST /wskomerci/cap.asmx HTTP/1.1
Host: 172.20.23.34
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://ecommerce.redecard.com.br/ConfirmTxn"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ConfirmTxn xmlns="https://ecommerce.redecard.com.br">
      <Data>string</Data>
      <NumSqn>string</NumSqn>
      <NumCV>string</NumCV>
      <NumAutor>string</NumAutor>
      <Parcelas>string</Parcelas>
      <TransOrig>string</TransOrig>
      <Total>string</Total>
      <Filiacao>string</Filiacao>
      <Distribuidor>string</Distribuidor>
      <NumPedido>string</NumPedido>
      <Pax1>string</Pax1>
      <Pax2>string</Pax2>
      <Pax3>string</Pax3>
      <Pax4>string</Pax4>
      <Numdoc1>string</Numdoc1>
      <Numdoc2>string</Numdoc2>
      <Numdoc3>string</Numdoc3>
      <Numdoc4>string</Numdoc4>
    </ConfirmTxn>
  </soap:Body>
</soap:Envelope>
```

**RESPONSE :**

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<CONFIRMATION>
  <CODRET> string </CODRET>
  <MSGRET> string </MSGRET>
</CONFIRMATION>
```

## Sales Receipt Request Operation

| Address | https://ecommerce.redecard.com.br/pos_virtual/cupom.asp: |
|---------|----------------------------------------------------------|
| Layers | Request HTTP/POST |
| Protocol | Secure SSL |

### Description:

Sales receipt request. The Sales receipt request must be issued through an HTTPS request. The coupon return is **NOT** provided via a Web Service method.

Once the transaction is confirmed, the merchant must request the Sales receipt, by sending the following parameters filled out:

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| DATA | 8 | Transaction date |
| TRANSACAO | 3 | Code 201 |
| NUMAUTOR | 6 | Authorization number |
| NUMCV | 9 | Sales receipt number |
| FILIACAO | 9 | Supplying merchant membership |

### DATA

The "DATA" parameter must contain the date on which the transaction was authorized (in the format YYYYMMDD), that was informed by Redecard on the field "DATA" in the second step of the flow.

### TRANSACAO

The "TRANSACAO" parameter must contain the coupon request code: 201.

### NUMAUTOR

The "NUMAUTOR" parameter must contain exactly the same transaction authorization number that was returned by Redecard on the field "NUMAUTOR" in the second step of the flow. If, for example, the number 012345 is returned, the virtual store must send the number 012345 and not 12345 (omitting the value "0" - zero). There may be situations in which the parameters contain letters.

### NUMCV

The "NUMCV" parameter must contain the transaction sales receipt that was informed by Redecard on the field "NUMCV" in the second step of the flow.

### FILIACAO

The "FILIACAO" parameter must contain the membership number of the supplying merchant (registered at Redecard) which was informed by the merchant on the Field "FILIACAO" in the first step of the flow.

**Return of Sales receipt**

The result generated by WebService when the screen "... cupom.asp" is requested is shown on the following source code. This result must be handled by the merchant's application.

```
<html><head><title>Redecard</title>
<script>
function janela() {
  window.open('','vpos_cv',"scrollbars=yes,location=no,directories=no,status=yes,menubar=no,resizable=yes,
toolbar=no,top=50,left=50,width=680,height=460" );
}
</script>
<STYLE>
.Button
{
   BORDER-RIGHT: #000000 1px solid;
   BORDER-TOP: #000000 1px solid;
   FONT-WEIGHT: bold;
   FONT-SIZE: 11px;
   BACKGROUND-IMAGE: url(FundoBotao.gif);
   BORDER-LEFT: #000000 1px solid;
   CURSOR: hand;
   COLOR: #ffffff;
   BORDER-BOTTOM: #000000 1px solid;
   BACKGROUND-REPEAT: repeat-x;
   FONT-FAMILY: Helvetica, Arial, sans-serif;
   BACKGROUND-COLOR: #003399;
   TEXT-DECORATION: none
}
</STYLE>

</head>
<body bgcolor="FFFFFF" marginheight="0" marginwidth="0" topmargin="0" leftmargin="0"
onLoad="javascript:return true;" >
<center>
<table border="0" width="280"><tr><td align=center>
<IMG SRC=mcardcv.gif BORDER=0>
</td></tr><tr><td>
<CENTER><FONT FACE="TAHOMA" SIZE="1">
REDECARD          <BR><BR>         MASTERCARD          <BR><BR><BR>COMPR:003866085
VALOR:      0,01<BR><BR>ESTAB:011373822 TESTE E-COMMERCE     <BR>26.05.03-16:53:48
TERM:PVxxxxxx/xxxxxx<BR>CARTAO: 5476.xxxx.xxxx.xxxx      <BR>AUTORIZACAO: 027740
<BR>   RECONHECO E PAGAREI A DIVIDA   <BR>      AQUI REPRESENTADA      <BR><BR><BR>
_____   <BR>                  <BR>   NOME DO PORTADOR
</msgret><show_aut >
</CENTER></FONT></td></tr></table><br><center>
<TABLE BORDER="0" WIDTH="280" ><FORM ACTION="javascript:window.print()" name="frmprint">
<TD WIDTH="50%" ALIGN="CENTER"><INPUT TYPE="IMAGE" SRC="imprimirA.gif" name="btnprint">
</TD></FORM><FORM ACTION="Cupom_salvar.asp" id=form4 name=form4><input type=hidden
name="data"
value="20030526"> <input type=hidden name="numcv" value="3866085"> <input type=hidden
name="numautor"
value="027740">
<TD WIDTH="50%" ALIGN="CENTER"><INPUT TYPE="IMAGE" SRC="salvarA.gif" id=IMAGE3
name=IMAGE3>
</TD></FORM></TABLE>  </center> </body></html>
```

⚠ **If this return is saved at the merchant's environment for a future presentation, the images and animations will not be displayed, as shown in the following illustration:**

⚠ **This information refers to Komerci Integrated. The WS doesn't have a graphical interface, therefore, the images won't be sent.**

REDECARD

MASTERCARD

COMPR:003866085 VALOR: 0,01

ESTAB:011373822 TESTE E-COMMERCE
26.05.03-16:53:48 TERM:PV 999999/999999
CARTAO:5476.9999.9999.9999
AUTORIZACAO: 027740
RECONHECO E PAGAREI A DIVIDA
AQUI REPRESENTADA

_____

NOME DO PORTADOR

## WebService Management Methods

The following methods correspond to WebService management. The following operation refers to: Transactions Void, Pre-Authorization Confirmation and Reports.

## "VoidTransaction" Operation

### Step 1 – Transaction Void Service Request

**Description:**

Void effective and confirmed transactions that don't refer to Pre-Authorization (There is a specific method for voiding pre-authorization transactions - VoidPreAuthorization).

This method requires a User and Password authentication. To register Users and Access Passwords to WebService:

- o Perform login at the Portal;
- o At the services menu, in the option called 'WebServices users';
- o Set a new password or a new user/password.

**Scope:**

| Address | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---------|------------------------------------------------------------------|
| Layers | .NET, SOAP/XML, Request HTTP/POST |
| Protocol | Secure SSL |

**Parameters:**

The merchant must send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| TOTAL | 10 | Purchase total amount |
| FILIACAO | 9 | Merchant membership number |
| NUMCV | 9 | Sales Receipt Number (NSU) |
| NUMAUTOR | 6 | Authorization Number |
| CONCENTRADOR | 5 | Concentrator Code |
| USR | 16 | Master User Code |
| PWD | 20 | Master User Access Password |

**TOTAL**

The "TOTAL" parameter must contain the amount of the performed transaction.

⚠ **Specifically for Airline Companies, this parameter must contain the amount that results from the sum of the flight tickets <u>without</u> the "Boarding Tax".**

⚠ **This amount must be separated by a "." (point). For exemple: 34.60**

⚠ **It's mandatory to have two decimal places.**

## FILIACAO

The "FILIACAO" parameter must contain the merchant's* membership number registered at Redecard.

⚠ **Supplier, in sales through distributors or B2B.**

## NUMCV

The "NUMCV" parameter must contain the transaction's sales receipt number.

## NUMAUTOR

The "NUMAUTOR" parameter must contain the transaction's authorization number.

## CONCENTRADOR

The "CONCENTRADOR" parameter must contain the concentrator code.

⚠ **This information is not currently being used. Please send this parameter blank, unless instructed otherwise.**

## USR

The "USR" parameter must contain the Master user code registered at Redecard's Portal.

⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this code in parameter "USR" for self-authentication when requesting any service via webservices.**

⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

⚠ **The user for management via webservices must have a "Master" profile.**

⚠ **To change or add a user / password for WebService:**

   o **Perform login at the Portal;**
   o **At the services menu, in the option called 'WebServices users';**
   o **Set a new password or a new user/password.**

## PWD

The "PWD" parameter must contain the Access password registered at Redecard's Portal, which corresponds to the user code informed in the "USR" parameter.

⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**
⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this password in the "PWD" parameter for self-authentication when requesting any service via webservices.**

⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

⚠ **The user for management via webservices must have a "Master" profile.**

⚠ **To change or add a user / password for WebService:**

  o **Perform login at the Portal;**
  o **At the services menu, in the option called 'WebServices users';**
  o **Set a new password or a new user/password.**

## Attention

⚠ **The void operation may only be requested on the same day on which the capture transaction was performed, that is, until 11:59 pm, considering Brasilia's official time.**

**Step 2 – Return from Transaction Void Request**

The return from the VoidTransaction operation will be sent in XML.

```
<?xml version="1.0" encoding="utf-8" ?>
 <CONFIRMATION>
  <root>
   <codret>9</codret>
   <msgret>Mensagem</msgret>
  </root>
 </CONFIRMATION>
```

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| CODRET | 2 | Return code |
| MSGRET | 250 | Return code description |

## CODRET

The "CODRET" parameter will return a code that refers to the request status. If the void was successfully accomplished, the value returned in this parameter will be "0" (zero). Otherwise, that is, if the void is not accomplished for any reason, webservices will return an error code. See topic "Table of Errors in Parameterization".

## MSGRET

The "MSGRET" parameter will return the request status message that corresponds to the code returned in the "CODRET" parameter.

**Request and Response from "VoidTransaction" Operation**

# SOAP/XML:

The following frame is an example of SOAP envelope. The **fields** must have values inputted according to the transaction.

**Request**

```
POST /wskomerci/cap.asmx HTTP/1.1
Host: 172.20.23.34
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://ecommerce.redecard.com.br/VoidTransaction"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="https://www.w3.org/2001/XMLSchema"
xmlns:soap="https://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <VoidTransaction xmlns="http://ecommerce.redecard.com.br">
      <Total>string</Total>
      <Filiacao>string</Filiacao>
      <Data>string</Data>
      <NumCV>string</NumCV>
      <NumAutor>string</NumAutor>
      <Concentrador>string</Concentrador>
      <Usr>string</Usr>
      <Pwd>string</Pwd>
    </VoidTransaction>
  </soap:Body>
</soap:Envelope>
```

**Response**

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8" ?>
 <CONFIRMATION>
  <root>
   <codret>string</codret>
   <msgret>string</msgret>
  </root>
 </CONFIRMATION>
```

**Step 1 – Pre-authorization Confirmation Service Request**

**Description**

Confirm pre-authorization transactions so that they can be billed. This method is used to confirm a transaction 73 which refers to a Pre-Authorization. After this procedure, the pre-authorization transaction is confirmed for billing.

This method requires User and Password authentication. To register Users and Access Passwords to WebService:

- Perform login at the Portal;
- At the services menu, in the option called 'WebServices users';
- Set a new password or a new user/password.

**Scope:**

| Address | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---|---|
| Layers | .NET, SOAP/XML, Request HTTP/POST |
| Protocol | Secure SSL |

**Parameters:**

The merchant must send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|---|---|---|
| FILIACAO | 9 | Merchant membership number |
| DISTRIBUIDOR | 9 | Membership number of the distributing merchant or the buyer company (B2B) |
| TOTAL | 10 | Transaction total amount |
| PARCELAS | 2 | Transaction installments number |
| DATA | 8 | Transaction date |
| NUMAUTOR | 6 | Transaction authorization number |
| NUMCV | 9 | Transaction sales receipt number |
| CONCENTRADOR | 5 | Concentrator code |
| USR | 16 | Master user code |
| PWD | 20 | Master user access password |

**FILIACAO**

The "FILIACAO" parameter must contain the membership number of the merchant* registered at Redecard.

⚠ **Supplier, in sales through distributors or B2B.**

**DISTRIBUIDOR**

The "DISTRIBUIDOR" parameter must contain the membership number of the distributing merchant. This parameter must only be filled out if the merchant on field "FILIACAO" is a supplier. If not, this parameter must be sent blank.

## Attention

⚠ **The distributor may only confirm pre-authorization transactions performed by him/her, on behalf and in favor of his supplier.**

## TOTAL

The "TOTAL" parameter must contain the amount of the performed transaction.

⚠ **Specifically for Airline Companies, this parameter must contain the amount that results from the sum of the tickets without the "Boarding Tax".**

⚠ **This amount must be separated by a "." (point). For exemple: 34.60**

⚠ **It's mandatory to have two decimal places.**

⚠ **Don't send thousand separators.**

## PARCELAS

The "PARCELAS" parameter must contain the number of installments of the transaction in the format "99". The decision of using or not using installments in the transaction is taken at confirmation time and not on pre-authorization capture request. For full payment/cash transactions, the "PARCELAS" parameter must be filled out with the value "00" (zero zero).

## DATA

The "DATA" parameter must contain the date on which the transaction was authorized (in the format YYYYMMDD).

## NUMAUTOR

The "NUMAUTOR" parameter must contain exactly the same transaction authorization number that was returned by Redecard. If, for example, the number 012345 is returned, the merchant must send the number 012345 and not 12345 (omitting the value "0" - zero).

## NUMCV

The "NUMCV" parameter must contain the transaction's sales receipt number that was returned by Redecard.

## CONCENTRADOR

The "CONCENTRADOR" parameter must contain the concentrator code.

⚠ **This information is not currently being used. Please send this parameter blank, unless instructed otherwise.**

## USR

The "USR" parameter must contain a Master user code registered at Redecard's Portal.

⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this code in parameter "USR" for self-authentication when requesting any service via webservices.**

- ⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

- ⚠ **The user for management via webservices must have a "Master" profile".**

- ⚠ **To change or add a user / password for WebService:**

  - o **Perform login at the Portal;**
  - o **At the services menu, in the option called 'WebServices users';**
  - o **Set a new password or a new user/password.**

## PWD

The "PWD" parameter must contain the Access password registered at Redecard's Portal, which corresponds to the user code informed in the "USR" parameter.

- ⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

- ⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this password in parameter "PWD" for self-authentication when requesting any service via webservices.**

- ⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

- ⚠ **The user for management via webservices must have a "Master" profile".**

- ⚠ **To change or add a user / password for WebService:**

  - o **Perform login at the Portal;**
  - o **At the services menu, in the option called 'WebServices users';**
  - o **Set a new password or a new user/password.**

- **Step 2 – Return from Pre-authorization Confirmation Request**

The return from ConfPreAuthorization operation will be sent in XML.

```
<?xml version="1.0" encoding="utf-8" ?>
 <CONFIRMATION>
  <root>
   <codret>9</codret>
   <msgret>Mensagem</msgret>
  </root>
 </CONFIRMATION>
```

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| CODRET | 2 | Return code |
| MSGRET | 250 | Return code description |

### CODRET

The "CODRET" parameter will return a code that refers to the request status. If the pre-authorization confirmation (capture) has been successfully accomplished, the value returned in this parameter will be "0" (zero). Otherwise, that is, if, for any reason, the pre-authorization confirmation (capture) is not accomplished, the webservice will return an error code. See topic "Table of Errors in Parameterization".

### MSGRET

The "MSGRET" parameter will return the request status message that corresponds to the code returned in the "CODRET" parameter.

**Request and Response from the Operation Response of Pre-Authorization Confirmation "ConfirmPreAuthorization"**

# SOAP/XML:

The following frame is an example of SOAP envelope. The **fields** must have values inputted according to the transaction.

**Request**

```
POST /wskomerci/cap.asmx HTTP/1.1
Host: 172.20.23.34
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://ecommerce.redecard.com.br/ConfPreAuthorization"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ConfPreAuthorization xmlns="https://ecommerce.redecard.com.br">
      <Filiacao>string</Filiacao>
      <Distribuidor>string</Distribuidor>
      <Total>string</Total>
      <Parcelas>string</Parcelas>
      <Data>string</Data>
      <NumAutor>string</NumAutor>
      <NumCV>string</NumCV>
      <Concentrador>string</Concentrador>
      <Usr>string</Usr>
      <Pwd>string</Pwd>
    </ConfPreAuthorization>
  </soap:Body>
</soap:Envelope>
```

**Response**

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8" ?>
 <CONFIRMATION>
  <root>
   <codret>string</codret>
   <msgret>string</msgret>
  </root>
 </CONFIRMATION>
```

## "VoidPreAuthorization" Operation

### Step 1 – Pre-authorization Void Service Request

**Description:**

Void transactions of code 73 – Pre-authorization. The pre-authorizations will be voided and won't be able to be confirmed after executing this method.

This method requires User and Password authentication. To register Users and Access Passwords to WebService:

- o Perform login at the Portal;
- o At the services menu, in the option called 'WebServices users';
- o Set a new password or a new user/password.

**Scope:**

| Address | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---|---|
| Layers | .NET, SOAP/XML, Request HTTP/POST |
| Protocol | Secure SSL |

**Parameters:**

The merchant must send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|---|---|---|
| FILIACAO | 9 | Merchant membership number |
| DISTRIBUIDOR | 9 | Membership number of the distributing merchant or the buyer company (B2B) |
| TOTAL | 10 | Transaction total amount |
| DATA | 8 | Transaction date |
| NUMAUTOR | 6 | Transaction authorization number |
| NUMCV | 9 | Transaction sales receipt number |
| CONCENTRADOR | 5 | Concentrator code |
| USR | 16 | Master user code |
| PWD | 20 | Master user access password |

### FILIACAO

The "FILIACAO" parameter must contain the merchant's membership number registered at Redecard.

⚠ **Supplier, in sales through distributors or B2B.**

### DISTRIBUIDOR

The "DISTRIBUIDOR" parameter is specific for merchants in which sales are done through distributors or that perform B2B. It must contain the membership number of the merchant registered at Redecard, which is responsible for the transaction (distributor or B2B buyer company). If the merchant doesn't belong to the segments mentioned above or if the supplier is responsible for this transaction, this parameter must be sent blank.

⚠ **The distributor may only confirm pre-authorization transactions performed by him/her, on behalf and in favor of his supplier.**

## TOTAL

The "TOTAL" parameter must contain the amount of the performed transaction.

⚠ **Specifically for Airline Companies, this parameter must contain the amount that results from the sum of the flight tickets <u>without</u> the "Boarding Tax".**

⚠ **This amount must be separated by a "." (point). For exemple: 34.60**

⚠ **It's mandatory to have two decimal places.**

## DATA

The "DATA" parameter must contain the date on which the transaction was authorized (in the format YYYYMMDD).

## NUMAUTOR

The "NUMAUTOR" parameter must contain exactly the same transaction authorization number that was returned by Redecard If, for example, the number 012345 is returned, the merchant must send the number 012345 and <u>not</u> 12345 (omitting the value "0" - zero).

## NUMCV

The "NUMCV" parameter must contain the transaction's sales receipt number that was returned by Redecard.

## CONCENTRADOR

The "CONCENTRADOR" parameter must contain the concentrator code.

⚠ **This information is not currently being used. Please send this parameter blank, unless instructed otherwise.**

## USR

The "USR" parameter must contain a Master user code registered at Redecard's Portal.

⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this code in the "USR" parameter for self-authentication when requesting any service via webservices.**

⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

⚠ **The user for management via webservices must have a "Master" profile.**

⚠ **To change or add a user / password for WebService:**

- o **Perform login at the Portal;**
- o **At the services menu, in the option called 'WebServices users';**
- o **Set a new password or a new user/password.**

## PWD

The "PWD" parameter must contain the access password registered at Redecard's Portal, which corresponds to the user code informed in the "USR" parameter.

⚠️ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

⚠️ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this password in the "PWD" parameter for self-authentication when requesting any service via webservices.**

⚠️ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

⚠️ **The user for management via webservices must have a "Master" profile".**

⚠️ **To change or add a user / password for WebService:**

- o **Perform login at the Portal;**
- o **At the services menu, in the option called 'WebServices users';**
- o **Set a new password or a new user/password.**

**Step 2 – Return from Pre-Authorization Void Request**

The return from VoidPreAuthorization operation will be sent in XML.

```
<?xml version="1.0" encoding="utf-8" ?>
 <CONFIRMATION>
  <root>
   <codret>9</codret>
   <msgret>Mensagem</msgret>
  </root>
 </CONFIRMATION>
```

| NAME | SIZE | DESCRIPTION |
|---|---|---|
| CODRET | 2 | Return code |
| MSGRET | 250 | Return code description |

### CODRET

The "CODRET" parameter will return a code that refers to the request status. If reversal of pre-authorization is successfully accomplished, the value returned in this parameter will be "0" (zero). Otherwise, if, for any reason, the reversal of pre-authorization is not accomplished, webservices will return an error code. See topic "Table of Errors in Parameterization".

### MSGRET

The "MSGRET" parameter will return the message that corresponds to the code returned in "CODRET" parameter.

**Request and Response from "VoidPreAuthorization" Operation**

# SOAP/XML:

The following frame is an example of SOAP envelope. The **fields** must have values inputted according to the transaction.

**Request**

```
POST /wskomerci/cap.asmx HTTP/1.1
Host: 172.20.23.34
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://ecommerce.redecard.com.br/VoidPreAuthorization"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <VoidPreAuthorization xmlns="https://ecommerce.redecard.com.br">
      <Filiacao>string</Filiacao>
      <Distribuidor>string</Distribuidor>
      <Total>string</Total>
      <Data>string</Data>
      <NumAutor>string</NumAutor>
      <NumCV>string</NumCV>
      <Concentrador>string</Concentrador>
      <Usr>string</Usr>
      <Pwd>string</Pwd>
    </VoidPreAuthorization>
  </soap:Body>
</soap:Envelope>
```

**Response**

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8" ?>
 <CONFIRMATION>
  <root>
   <codret>string</codret>
   <msgret>string</msgret>
  </root>
</CONFIRMATION>
```

## "VoidConfPreAuthorization" Operation

### Step 1 – Pre-authorization Confirmation Service Request

**Description:**

Void pre-authorization confirmation. After pre-authorization confirmation, it's still possible to void it through this method. The pre-authorization transaction is cancelled and it won't be billed.

This method requires User and Password authentication. To register Users and Access Passwords to WebService:

- o  Perform login at the Portal;
- o  At the services menu, in the option called 'WebServices users';
- o  Set a new password or a new user/password.

**Scope:**

| Address | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---------|------------------------------------------------------------------|
| Layers | .NET, SOAP/XML, Request HTTP/POST |
| Protocol | Secure SSL |

**Parameters:**

The merchant must send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| FILIACAO | 9 | Merchant membership number |
| TOTAL | 10 | Transaction total amount |
| PARCELAS | 2 | Transaction membership number |
| DATA | 8 | Transaction date |
| NUMAUTOR | 6 | Transaction authorization number |
| NUMCV | 9 | Transaction sales receipt number |
| CONCENTRADOR | 5 | Concentrator code |
| USR | 16 | Master user code |
| PWD | 20 | Master user access password |

**FILIACAO**

The "FILIACAO" parameter must contain the membership number of the merchant* registered at Redecard.

⚠ **Supplier, in sales through distributors or B2B.**

**TOTAL**

**The "TOTAL" parameter must contain the amount of the performed transaction.**

⚠ **Specifically for Airline Companies, this parameter must contain the amount that results from the sum of the flight tickets <u>without</u> the "Boarding Tax".**

⚠ **This amount must be separated by a "." (point). For example: 34.60**

⚠ **It's mandatory to have two decimal places.**

## PARCELAS

The "PARCELAS" parameter must contain the number of installments of the transaction in the format "99", which was informed by the merchant at the transaction's confirmation time. For full payment/cash transactions, the "PARCELAS" parameter must be filled out with the value "00" (zero zero).

## DATA

The "DATA" parameter must contain the date on which the transaction was authorized (in the format YYYYMMDD).

## NUMAUTOR

The "NUMAUTOR" parameter must contain exactly the same transaction authorization number that was returned by Redecard. If, for example, the number 012345 is returned, the merchant must send the number 012345 and not 12345 (omitting the value "0" – zero).

## NUMCV

The "NUMCV" parameter must contain the transaction's sales receipt number that was returned by Redecard.

## CONCENTRADOR

The "CONCENTRADOR" parameter must contain the concentrator code.

⚠ **This information is not currently being used. Please send this parameter blank, unless instructed otherwise.**

## USR

The "USR" parameter must contain a Master user code registered at Redecard's Portal.

⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this code in the "USR" parameter for self-authentication when requesting any service via webservices.**

⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

⚠ **The user for management via webservices must have a "Master" profile".**

⚠ **To change or add a user / password for WebService:**

- o **Perform login at the Portal;**
- o **At the services menu, in the option called 'WebServices users';**
- o **Set a new password or a new user/password.**

**PWD**

The "PWD" parameter must contain the access password registered at Redecard's Portal, which corresponds to the user code informed in the "USR" parameter.

⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this password in the "PWD" parameter for self-authentication when requesting any service via webservices.**

⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

⚠ **The user for management via webservices must have a "Master" profile.**

⚠ **To change or add a user / password for WebService:**

- o **Perform login at the Portal;**
- o **At the services menu, in the option called 'WebServices users';**
- o **Set a new password or a new user/password.**

## Attention

**The void operation may only be requested on the same day on which the pre-authorization transaction was captured, until 11:59 pm, considering Brasilia's official time.**

**Step 2 – Return from Pre-authorization void confirmation request**

The return from VoidPreAuthorization operation will be sent in XML.

```
<?xml version="1.0" encoding="utf-8" ?>
 <CONFIRMATION>
  <root>
   <codret>9</codret>
   <msgret>Mensagem</msgret>
  </root>
 </CONFIRMATION>
```

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| CODRET | 2 | Return code |
| MSGRET | 250 | Return code description |

**CODRET**

The "CODRET" parameter will return a code that refers to the request status. If the pre-authorization confirmation void is successfully done, the value returned in this parameter will be "0" (zero). Otherwise, that is, if the pre-authorization confirmation void is not done for any reason, webservices will return an error code. See topic "Table of Errors in Parameterization".

**MSGRET**

The "MSGRET" parameter will return the request status message that corresponds to the code returned in the "CODRET" parameter.

**Request and Response from "VoidConfPreAuthorization" Operation**

# SOAP/XML:

The following frame is an example of SOAP envelope. The **fields** must be completed according to the transaction.

**Request**

```
POST /wskomerci/cap.asmx HTTP/1.1
Host: 172.20.23.34
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction:
"https://ecommerce.redecard.com.br/VoidConfPreAuthorization"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <VoidConfPreAuthorization
xmlns="http://ecommerce.redecard.com.br">
      <Filiacao>string</Filiacao>
      <Total>string</Total>
      <Parcelas>string</Parcelas>
      <Data>string</Data>
      <NumAutor>string</NumAutor>
      <NumCV>string</NumCV>
      <Concentrador>string</Concentrador>
      <Usr>string</Usr>
      <Pwd>string</Pwd>
    </VoidConfPreAuthorization>
  </soap:Body>
</soap:Envelope>
```

**Response**

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8" ?>
 <CONFIRMATION>
  <root>
   <codret>string</codret>
   <msgret>string</msgret>
  </root>
 </CONFIRMATION>
```

## "CouncilReport" Operation

### Step 1 – Sales Report Service Request

**Description:**

Sales report request. This method returns all transactions that were performed and their corresponding status.

This report extracts information with a maximum period (DATA_INICIAL and DATA_FINAL) of 15 days **from the Report's request date.**

This method requires User and Password authentication. To register Users and Access Passwords to WebService:

- o   Perform login at the Portal;
- o   At the services menu, in the option called 'WebServices users';
- o   Set a new password or a new user/password.

**Scope:**

| Address | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---------|------------------------------------------------------------------|
| Layers | .NET, SOAP/XML, Request HTTP/POST |
| Protocol | Secure SSL |

**Parameters:**

The merchant must send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| FILIACAO | 9 | Membership number of the merchant to be searched |
| USR | 16 | Master user code (Redecard's Portal) |
| PWD | 20 | "USR" Access Password (Redecard's Portal) |
| **SEARCH FILTERS** | | |
| DISTRIBUIDOR | 9 | Membership number of the distributing merchant or the buyer company (B2B) to be filtered in the search. |
| DATA_INICIAL | 8 | Initial date of the transactions' period to be searched |
| DATA_FINAL | 8 | Final date of the transactions' period to be searched |
| TIPO_TRX | 2 | Transaction type code to be searched |
| STATUS_TRX | 1 | Transaction status code to be searched |
| SERVICO_AVS | 1 | AVS restriction code to be searched |

### FILIACAO

The "FILIACAO" parameter must contain the membership number of the merchant registered at Redecard, to be searched.

## USR

The "USR" parameter must contain the Master user code registered at Redecard's Portal.

⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this code in the "USR" parameter for self-authentication when requesting any service via webservices.**

⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

⚠ **The user for management via webservices must have a "Master" profile".**

⚠ **To change or add a user / password for WebService:**

   o **Perform login at the Portal;**
   o **At the services menu, in the option called 'WebServices users';**
   o **Set a new password or a new user/password.**

## PWD

The "PWD" parameter must contain the Access password registered at Redecard's Portal, which corresponds to the user code informed in the "USR" parameter.

⚠ **If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.**

⚠ **At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this password in the "PWD" parameter for self-authentication when requesting any service via webservices.**

⚠ **Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.**

⚠ **The user for management via webservices must have a "Master" profile".**

⚠ **To change or add a user / password to WebService:**

   o **Perform login at the Portal;**
   o **At the services menu, in the option called 'WebServices users';**
   o **Set a new password or a new user/password.**

**SEARCH FILTERS:**

**DISTRIBUIDOR**

This is an optional parameter and it may only be used if the "FILIACAO" parameter has been filled out with the number of a "supplying" merchant. It may contain the membership number of a specific distributing merchant or buyer company (B2B) registered at Redecard, to be filtered in the search. To view all transactions, apart from this filter, just send this parameter blank.

**DATA_INICIAL**

The "DATA_INICIAL" parameter is mandatory. It must contain the initial date of the transactions' period to be searched (in format YYYYMMDD).

**DATA_FINAL**

The "DATA_FINAL" parameter is mandatory. It must contain the final date of the transactions' period to be searched (in format YYYYMMDD).

**TIPO_TRX**

The "TIPO_TRX" parameter is optional. It may contain the transaction type code to be searched, in order to filter the report even more (see the following code table).
To view all transaction types, the merchant must send this parameter blank.

| Code | Description |
|------|-------------|
| 04 | Full Payment/Cash |
| 06 | Issuer Installments |
| 08 | Merchant Installments |
| 73 | Pre-Authorization |
| 39 | IATA Credit (only for Airline Companies) |
| 40 | IATA Merchant Installments (only for Airline Companies) |

**STATUS_TRX**

The "STATUS_TRX" parameter is optional. It may contain the transaction status to be searched, in order to filter the report even more (see the following code table).
To view all transactions, apart from its status, the merchant must send this parameter blank.

| Code | Description |
|------|-------------|
| 0 | Pending |
| 1 | Confirmed |
| 2 | Not Approved |
| 3 | Undone |
| 4 | Voided |

**SERVICO_AVS**

The "SERVICO_AVS" parameter is optional. It may contain the code that either displays transactions with AVS or without AVS, in order to filter the report even more (see the following code table).

To view all the transactions, with or without AVS simultaneously, the merchant must send this parameter blank.

| Code | Description |
|------|-------------|
| S | Only transactions performed with AVS |
| N | Only transactions performed without AVS |

**Step 2 – Return from the Sales Report Request**

The return from the "CouncilReport" operation will be sent in XML in the following format:

```
<?xml version="1.0" encoding="utf-8" ?>
<COUNCIL>
  <HEADER>
     <PERIODO>string</PERIODO>
     <DATA_REQUISICAO>string</DATA_REQUISICAO>
     <HORA_REQUISICAO>string</HORA_REQUISICAO>
     <FILIACAO>string</FILIACAO>
  </HEADER>
  <REGISTRO>
    <DES_DSTR>string</DES_DSTR>
    <FILIACAO_DSTR>string</FILIACAO_DSTR>
    <TRANSACAO>string</TRANSACAO>
    <PARCELAS>string</PARCELAS>
    <DATA>string</DATA>
    <HORA>string</HORA>
    <TOTAL>string</TOTAL>
    <MOEDA>string</MOEDA>
    <NUMPEDIDO>string</NUMPEDIDO>
    <NUMAUTOR>string</NUMAUTOR>
    <NUMCV>string</NUMCV>
    <COD_RET>string</COD_RET>
    <MSG_RET>string</MSG_RET>
    <STATUS>string</STATUS>
    <NR_CARTAO>string</NR_CARTAO>
    <NOM_PORTADOR>string</NOM_PORTADOR>
    <RESP_AVS>string</RESP_AVS>
    <MSG_AVS>string</MSG_AVS>
    <DATA_EXP_PRE_AUT>string</DATA_EXP_PRE_AUT>
    <DATA_CON_PRE_AUT>string</DATA_CON_PRE_AUT>
    <TAXA_EMBARQUE>string</TAXA_EMBARQUE>
    <USUARIO>string</USUARIO>
    <CEP>string</CEP>
    <NU_ENDERECO>string</NU_ENDERECO>
    <ENDERECO>string</ENDERECO>
  </REGISTRO>
</COUNCIL>
```

As you can see, the return from the transaction report is divided into two different parts:
1) The header, which contains information on the requested period (date and time of the report request and merchant membership), and
2) The body, which contains the registration "nodes" that present details of the transactions which met the filter described in the operation call.

**Return descriptive table:**

Since the return of the report contains two parts, the header and the body, the parameters returned will be described in a grouped manner:

- **Report header**

Part of the report between the "nodes" <HEADER></HEADER>

| Name | Size | Description |
|---|---|---|
| PERIODO | 20 | Selected period |
| DATA_REQUISIACAO | 8 | Report request date |
| HORA_REQUISICAO | 8 | Report request time |
| FILIACAO | 9 | Membership number used in the query |

**PERIODO**

The "PERIODO" parameter will return the search period requested in the format: (YYYYMMDD to YYYYMMDD).

**DATA_REQUISICAO**

The "DATA_REQUISICAO" parameter will return the date on which the report was requested and issued, in the format (YYYYMMDD).

**HORA_REQUISICAO**

The "HORA_REQUISICAO" parameter will return the time at which the report was requested and issued, in the format (HH:MM:SS).

**FILIACAO**

The "FILIACAO" parameter will return the merchant's membership number provided for the search of transactions.

- **Report body**

Part of the report between the "nodes" <REGISTRO></REGISTRO>.

| Name | Size | Description |
|---|---|---|
| DES_DSTR | 40 | Commercial name of the distributing merchant or buyer company responsible for the transaction |
| FILIACAO_DSTR | 9 | Membership number of the distributing merchant or buyer company responsible for the transaction |
| TRANSACAO | 30 | Transaction type description |
| PARCELAS | 2 | Transaction installment number |
| DATA | 8 | Transaction execution date |
| HORA | 6 | Transaction execution time |
| TOTAL | 10 | Transaction total amount |
| MOEDA | 10 | Transaction currency type |
| NUMPEDIDO | 16 | Order number generated by the merchant for the transaction |
| NUMAUTOR | 6 | Transaction authorization number |
| NUMCV | 9 | Transaction sales receipt number |
| COD_RET | 2 | Transaction return code |
| MSG_RET | 160 | Transaction return message |
| STATUS | 20 | Transaction status |
| NR_CARTAO | 16 | Card's masked number used in the transaction |
| NOM_PORTADOR | 100 | Cardholder's name informed in the transaction |
| RESP_AVS | 2 | Return code of AVS query |
| MSG_AVS | 80 | Return message of AVS query |
| DATA_EXP_PRE_AUT | 8 | Pre-authorization expiration date |
| DATA_CON_PRE_AUT | 8 | Pre-authorization completion date |
| TAXA_EMBARQUE | 10 | Transaction's boarding tax amount |
| USUARIO | 16 | User or channel code |
| CEP | 9 | Zip Code informed in the AVS query |
| NU_ENDERECO | 6 | Number of the address informed in the AVS query |
| ENDERECO | 150 | Address informed in the AVS query |

**DES_DSTR**

If the value informed in the "FILIACAO" parameter, of this service request, has been completed with the number of the supplying merchant, the "DES_DSTR" parameter will return the commercial name of the distributing merchant or buyer company (B2B), registered at Redecard and responsible for the transaction in question. If the "DISTRIBUIDOR" parameter has been sent as completed in this service's request, the report will only return transactions from the distributor / buyer company informed.

**FILIACAO_DSTR**

The "FILIACAO_DSTR" parameter will return the merchant's membership number which corresponds to the value returned in the "DES_DSTR" parameter.

**TRANSACAO**

The "TRANSACAO" parameter will return the description of the transaction type performed.

## PARCELAS

The "PARCELAS" parameter will return the number of installments in which the transaction was done.

## DATA

The "DATA" parameter will return the transaction's execution date in the format (YYYYMMDD).

## HORA

The "HORA" parameter will return the transaction's execution time in the format (HHMMSS).

## TOTAL

The "TOTAL" parameter will return the transaction's total amount. In this operation, specifically, this amount returns with a comma (,) as the decimal separator.

## MOEDA

The "MOEDA" parameter will return the currency type in which the transaction was done.

## NUMPEDIDO

The "NUMPEDIDO" parameter will return the order number informed by the merchant in the transaction. If this parameter has not been informed, it will be blank in the report.

## NUMAUTOR

The "NUMAUTOR" parameter will return the transaction's authorization number.

## NUMCV

The "NUMCV" parameter will return the transaction's sales receipt number.

## COD_RET

The "COD_RET" parameter will return the transaction's authorization return code.

## MSG_RET

The "MSG_RET" parameter will return a message that corresponds to the return code "COD_RET" from the transaction's authorization.

## STATUS

The "STATUS" parameter will return the transaction's current condition (position).

## NR_CARTAO

The "NR_CARTAO" parameter will return the card's masked number used in the transaction.

## NOM_PORTADOR

The "NOM_PORTADOR" parameter will return the cardholder's name informed in the transaction.

### RESP_AVS

The "RESP_AVS" parameter will return the AVS query return code, if this service was used in the transaction.

### MSG_AVS

The "MSG_AVS" parameter will return the AVS query message, which corresponds to the "RESP_AVS" code returned, if this service was used in the transaction.

### DATA_EXP_PRE_AUT

The "DATA_EXP_PRE_AUT" parameter will return the expiration date from the pre-authorization transaction, in the format (YYYYMMDD), if this transaction type was used.

### DATA_CON_PRE_AUT

The "DATA_CON_PRE_AUT" parameter will return the completion date of the pre-authorization transaction, in the format (YYYYMMDD), if this transaction type was used.

### TAXA_EMBARQUE

The "TAXA_EMBARQUE" parameter will return the boarding tax amount informed in the transaction. If this parameter has not been informed, it will be returned with a blank value on the report.

### USUARIO

The "USUARIO" parameter will return the code of the user that has performed the transaction, if it has been executed via Redecard's Portal or, it will return the channel in which it has been performed, if it has been executed via WebServices. Otherwise, the "USUARIO" parameter will be returned with a blank value in the report.

### CEP

The "CEP" parameter will return the Zip Code informed in the transaction, if it has been performed with AVS query.

### NU_ENDERECO

The "NU_ENDERECO" parameter will return the address number informed in the transaction, if it has been performed with AVS query.

### ENDERECO

The ENDERECO parameter will return the address informed in the transaction, if it has been performed with AVS query.

⚠ **For each transaction, there will be a new "node", called REGISTRO.**

**Request and Response from "CouncilReport" Operation**

## SOAP/XML:

The following frame is an example of SOAP envelope. The **parameters** must have values inputted according to the transaction.

| Request |
| --- |

```
POST /wskomerci/cap.asmx HTTP/1.1
Host: 172.20.23.34
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://ecommerce.redecard.com.br/CouncilReport"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CouncilReport xmlns="https://ecommerce.redecard.com.br">
      <Filiacao>string</Filiacao>
      <Distribuidor>string</Distribuidor>
      <Data_Inicial>string</Data_Inicial>
      <Data_Final>string</Data_Final>
      <Tipo_Trx>string</Tipo_Trx>
      <Status_Trx>string</Status_Trx>
      <Servico_AVS>string</Servico_AVS>
      <Usr>string</Usr>
      <Pwd>string</Pwd>
    </CouncilReport>
  </soap:Body>
</soap:Envelope>
```

**Response**

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8" ?>
<COUNCIL>
  <HEADER>
      <PERIODO>string</PERIODO>
      <DATA_REQUISICAO>string</DATA_REQUISICAO>
      <HORA_REQUISICAO>string</HORA_REQUISICAO>
      <FILIACAO>string</FILIACAO>
  </HEADER>
  <REGISTRO>
      <DES_DSTR>string</DES_DSTR>
      <FILIACAO_DSTR>string</FILIACAO_DSTR>
      <TRANSACAO>string</TRANSACAO>
      <PARCELAS>string</PARCELAS>
      <DATA>string</DATA>
      <HORA>string</HORA>
      <TOTAL>string</TOTAL>
      <MOEDA>string</MOEDA>
      <NUMPEDIDO>string</NUMPEDIDO>
      <NUMAUTOR>string</NUMAUTOR>
      <NUMCV>string</NUMCV>
      <COD_RET>string</COD_RET>
      <MSG_RET>string</MSG_RET>
      <STATUS>string</STATUS>
      <NR_CARTAO>string</NR_CARTAO>
      <NOM_PORTADOR>string</NOM_PORTADOR>
      <RESP_AVS>string</RESP_AVS>
      <MSG_AVS>string</MSG_AVS>
      <DATA_EXP_PRE_AUT>string</DATA_EXP_PRE_AUT>
      <DATA_CON_PRE_AUT>string</DATA_CON_PRE_AUT>
      <TAXA_EMBARQUE>string</TAXA_EMBARQUE>
      <USUARIO>string</USUARIO>
      <CEP>string</CEP>
      <NU_ENDERECO>string</NU_ENDERECO>
      <ENDERECO>string</ENDERECO>
  </REGISTRO>
</COUNCIL>
```

## "SalesSumm" Operation

### Step 1 – Sales Summary Service Request

**Description:**

Extract the sales summary which contains the summary of sales performed in the current date.

This method requires User and Password authentication. To register Users and Access Passwords to WebService:

- o Perform login at the Portal;
- o At the services menu, in the option called 'WebServices users';
- o Set a new password or a new user/password.

**Scope:**

| Address | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---------|------------------------------------------------------------------|
| Layers | .NET, SOAP/XML, Request HTTP/POST |
| Protocol | Secure SSL |

**Parameters:**

The merchant must send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| FILIACAO | 9 | Merchant's membership number |
| USR | 16 | Master user code |
| PWD | 20 | Master user access password |

**FILIACAO**

The "FILIACAO" parameter must contain the membership number of the merchant* registered at Redecard.

⚠ Supplier, in sales through distributors or B2B.

**USR**

The "USR" parameter must contain a Master user code registered at Redecard's Portal.

⚠ If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.

⚠ At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this code in the "USR" parameter for self-authentication when requesting any service via webservices.

⚠ Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.

⚠ The user for management via webservices must have a "Master" profile.

⚠ To change or add a user / password to WebService:

- o Perform login at the Portal;
- o At the services menu, in the option called 'WebServices users';

o   Set a new password or a new user/password.

**PWD**

The "PWD" parameter must contain the access password registered at Redecard's Portal, which corresponds to the user code informed in the "USR" parameter.

⚠   If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.

⚠   At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this password in the "PWD" parameter for self-authentication when requesting any service via webservices.

⚠   Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.

⚠   The user form management via webservices must have a "Master" profile.

⚠   To change or add a user / password to WebService:

o   Perform login at the Portal;
o   At the services menu, in the option called 'WebServices users';
o   Set a new password or a new user/password.

**Step 2 – Return from the Sales Summary Request**

The return from the "SalesSumm" operation will be sent in XML, according to the following model:

```
<?xml version="1.0" encoding="utf-8" ?>
 <REPORT>
  <HEADER>
   <DATA_REQUISICAO>String</DATA_REQUISICAO>
   <HORA_REQUISICAO>String</HORA_REQUISICAO>
   <FILIACAO>String</FILIACAO>
  </HEADER>
  <root>
   <codret>String</codret>
   <msgret>String</msgret>
   <resumoVendas row_count="1">
    <12341 dt_rv="12/12/12" qtd_cv="123" val_totl_pago="123" val_totl_lqdo="123" text="texto">
</12341>
   </resumoVendas>
  </root>
 </REPORT>
```

As the return from the "CouncilReport" operation, the return from the "SalesSumm" operation contains two parts: the header and the body.

- **Summary Header**

**DATA_REQUISICAO**

The "DATA_REQUISICAO" field will return the date on which the report was requested and issued, in the format (YYYYMMDD)

**HORA_REQUISICAO**

The "HORA_REQUISICAO" field will return the time at which the report was requested and issued, in the format (HH:MM:SS)

**FILIACAO**

The "FILIACAO" field will return the merchant's membership number provided for the transactions' search.

- **Summary body**

**CODRET**

The "CODRET" parameter will return a code that refers to the request status. If the Sales Summary request has been successfully done, the value returned in this parameter will be "0" (zero). Otherwise, that is, if the Sales Summary is not executed for any reason, the webservices will return an error code. See topic "Table of Errors in Parameterization".

**MSGRET**

The "MSGRET" parameter will return the request status message that corresponds to the code returned in the "CODRET" parameter.

**RESUMOVENDAS**

The "RESUMOVENDAS" parameter will return the sales summary content, where:

- **DT_RV**

This parameter will contain the date of the sales summary creation, in the format (DD/MM/YY).

- **QTD_CV**

This parameter will contain the sales amount.

- **VAL_TOTL_PAGO**

This parameter will contain the sales total amount.

- **VAL_TOTL_LQDO**

This parameter will contain the billed net amount.

**Request and Response from "SalesSumm" operation**

**Request**

```
POST /wskomerci/cap.asmx HTTP/1.1
Host: 172.20.23.34
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://ecommerce.redecard.com.br/SalesSumm"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SalesSumm xmlns="https://ecommerce.redecard.com.br">
      <Filiacao>string</Filiacao>
      <Usr>string</Usr>
      <Pwd>string</Pwd>
    </SalesSumm>
  </soap:Body>
</soap:Envelope>
```

**Response**

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8" ?>
 <REPORT>
   <HEADER>
     <DATA_REQUISICAO>String</DATA_REQUISICAO>
     <HORA_REQUISICAO>String</HORA_REQUISICAO>
     <FILIACAO>String</FILIACAO>
   </HEADER>
   <root>
    <codret>String</codret>
    <msgret>String</msgret>
    <resumoVendas row_count="1">
     <12341 dt_rv="12/12/12" qtd_cv="123" val_totl_pago="123"
val_totl_lqdo="123" text="texto"></12341>
    </resumoVendas>
   </root>
 </REPORT>
```

## "ConsFornDistrib" Operation

### Step 1 – Request of Suppliers/Distributors Query Service

**Description:**

Query Merchant´s Suppliers/Distributors.

This method requires User and Password authentication. To register User and Access Passwords to WebService:

- o   Perform login at the Portal;
- o   At the services menu, in the option called 'WebServices users';
- o   Set a new password or a new user/password.

**Scope:**

| Address | https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap.asmx |
|---------|------------------------------------------------------------------|
| Layers  | .NET, SOAP/XML, Request HTTP/POST |
| Protocol | Secure SSL |

**Parameters:**

The merchant must send the following parameters to Redecard:

| NAME | SIZE | DESCRIPTION |
|------|------|-------------|
| FILIACAO | 9 | Membership number of the merchant to be searched |
| USR | 16 | Master user code |
| PWD | 20 | Master user access password |

### FILIACAO

The "FILIACAO" parameter must contain the membership number of the merchant, to be searched, registered at Redecard.

### USR

The "USR" parameter must contain the Master user code registered at Redecard's Portal.

- ⚠ If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.
- ⚠ At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this code in the "USR" parameter for self-authentication when requesting any service via webservices.
- ⚠ Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.
- ⚠ The user for management via webservices must have a "Master" profile.
- ⚠ To change or add a user / password to WebService:

- o   Perform login at the Portal;
- o   At the services menu, in the option called 'WebServices users';

o  Set a new password or a new user/password.

**PWD**

The "PWD" parameter must contain the access password registered at Redecard's Portal, which corresponds to the user code informed in the "USR" parameter.

⚠ If the merchant has not yet been registered at Redecard's Portal, you can access it at URL: www.redecard.com.br, click "Register" and fill out the information requested at the end of the process.

⚠ At the end of the operation, the merchant must register a user code and access password to Redecard's Portal. The merchant must use this code in the "USR" parameter for self-authentication when requesting any service via webservices.

⚠ Besides webservices authentication, this information must also be saved for future references at Redecard's Portal.

⚠ The user for management via webservices must have a "Master" profile.

⚠ To change or add a user / password to WebService:

o  Perform login at the Portal;
o  At the services menu, in the option called 'WebServices users';
o  Set a new password or a new user/password.

**Step 2 – Return from the Query / Suppliers Request**

The return form "ConsFornDistrib" operation will be sent in XML, as the following model:

```xml
<?xml version="1.0" encoding="utf-8" ?>
<REPORT>
 <HEADER>
  <DATA_REQUISICAO>String</DATA_REQUISICAO>
  <HORA_REQUISICAO>String</HORA_REQUISICAO>
  <FILIACAO>String</FILIACAO>
 </HEADER>
 <REGISTRO>
  <FILIACAO>String</FILIACAO>
  <DESCRICAO>String</DESCRICAO>
 </REGISTRO>
 <REGISTRO>
  <FILIACAO>String</FILIACAO>
  <DESCRICAO>String</DESCRICAO>
 </REGISTRO>
</REPORT>
```

As the return from "CouncilReport" operation, the return from "ConsFornDistrib" operation comprises two parts: the header and the body.

- **Document header**

**DATA_REQUISICAO**

The "DATA_REQUISICAO" field will return the date on which the report was requested and issued, in the format (YYYYMMDD).

**HORA_REQUISICAO**

The "HORA_REQUISICAO" field will return the time at which the report was requested and issued in the format (HH:MM:SS).

**FILIACAO**

The "FILIACAO" field will return the merchant's membership number provided for the transactions' search.

- **Document body**

**FILIACAO**

The "FILIACAO" parameter will return the membership number of the merchant searched.

**DESCRICAO**

The "DESCRICAO" parameter will return the commercial name of the merchant searched, which refers to the value returned in the corresponding "FILIACAO" parameter.

**Request and Response from "ConsFornDistrib" operation**

**Request**

```
POST /wskomerci/cap.asmx HTTP/1.1
Host: 172.20.23.34
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "https://ecommerce.redecard.com.br/ConsFornDistrib"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ConsFornDistrib xmlns="https://ecommerce.redecard.com.br">
      <Filiacao>string</Filiacao>
      <Usr>string</Usr>
      <Pwd>string</Pwd>
    </ConsFornDistrib>
  </soap:Body>
</soap:Envelope>
```

**Response**

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8" ?>
 <REPORT>
   <HEADER>
    <DATA_REQUISICAO>String</DATA_REQUISICAO>
    <HORA_REQUISICAO>String</HORA_REQUISICAO>
    <FILIACAO>String</FILIACAO>
   </HEADER>
   <REGISTRO>
    <FILIACAO>String</FILIACAO>
    <DESCRICAO>String</DESCRICAO>
   </REGISTRO>
</REPORT>
```

## Test Operations

Operations for WebServices tests are available at:
https://ecommerce.redecard.com.br/pos_virtual/wskomerci/cap_teste.asmx.

The replies from test operations are random and must be considered only for demonstration and test purposes among service request and reply messages.

For operations that have a user and password as parameters, please inform the following information:

**User:** testews
**Password:** testews

For the purpose of testing the system without having to submit real transactions in production, two specific operations are provided within WebService to help the developer during the test phase. The corresponding method must be changed by adding the "Tst" complement at the end of the method. For example:

**GetAuthorizedTst** ➔ Replaces the GetAuthorized operation
**ConfirmTxnTst** ➔ Replaces the ConfirmTxn operation

The methods available for tests are:

| | |
|---|---|
| **GetAuthorizedTst** | Performs authorization of the credit transaction. |
| **ConfirmTxnTst** | Performs capture/confirmation of the transaction. |
| **VoidTransactionTst** | Performs void of the credit transaction. |
| **ConfPreAuthorizationTst** | Performs confirmation of the pre-authorization transactions. |
| **VoidPreAuthorizationTst** | Performs undo of pre-authorization transactions. |
| **VoidConfPreAuthorizationTst** | Performs void of the confirmation of pre-authorization transactions. |
| **CouncilReportTst** | Performs extraction of the transaction report. |
| **SalesSummTst** | Performs extraction of sales summary. |

The above operations work within the same scope of the previously described operations, with identical parameters and returns. The return messages are random, according to the pre-scheduled probabilities:

**Probabilities in authorization:** 80% successful, 20% errors.

**Probabilities in confirmation:** 50% with CODRET=0, 20% with CODRET=1 and 30% in other messages.

⚠ These probabilities are pre-scheduled, and may be changed without previous warnings.

⚠ Any data, like the number, expiration and cardholder, may be used for the card. There won't be any authorization, since the replies are random. However, the merchant's data must be real.

⚠ The two operations available above are monitored, in order to ensure increasing availability to webservice. In these test operations, it will be accepted a maximum of 10 calls per minute to the same merchant/IP address.

⚠ This option may only be used with a fictitious PV (Point of Sale), that is, a PV that is not valid and not registered at REDECARD.

⚠ For this test, the merchant's IP must not be registered or an IP error will be returned. The registered IP means that the PV is in production.

⚠ The IP registration may be done via Portal.

## Attention

⚠ **The test transactions must be done up to the value R$ 0.01**

## Error Codes in Parameterization

| Code | Description |
| --- | --- |
| 20 | **Missing mandatory parameter** |
| 21 | **Membership number in invalid format** |
| 22 | **Number of installments inconsistent with the transaction** |
| 23 | **Problems in merchant's registration.** ⚠ |
| 24 | **Problems in merchant's registration.** ⚠ |
| 25 | **Incorrect format of the transaction.** ⚠ |
| 26 | **Incorrect format of the transaction.** ⚠ |
| 27 | **Invalid card.** |
| 28 | **CVC2 in invalid format.** |
| 29 | **Operation not allowed. The order number of the IATA transaction reference exceeds 13 positions** ⚠ |
| 30 | **Missing AVS parameter.** |
| 31 | **Order number is greater than the allowed (16 positions).** |
| 32 | **IATA code is invalid or inexistent.** |
| 33 | **Invalid IATA code.** ⚠ |
| 34 | **Distributor is invalid or inexistent.** |
| 35 | **Problems in merchant's registration.** ⚠ |
| 36 | **Operation not allowed.** ⚠ |
| 37 | **Distributor is invalid or inexistent.** ⚠ |
| 38 | **Operation not allowed in test environment.** ⚠ |
| 39 | **Operation not allowed for the informed IATA code.** |
| 40 | **IATA code is invalid or inexistent.** |
| 41 | **Problems in the merchant's registration.** ⚠ |
| 42 | **Problems in the merchant's user registration.** ⚠ |
| 43 | **Problems in user authentication.** ⚠ |
| 44 | **Incorrect user for tests.** ⚠ |
| 45 | **Problems in merchant's registration for tests.** ⚠ |

| 56 | Invalid data. ⚠ |
|---|---|

➔**For items that display the sign:**

   ⚠   **The merchant must request a general analysis of the development, and if the error persists, it must contact Technical Support - 4001-4433**

**The errors above are returned by the application, and in these situations, the transaction was not yet sent for authorization in REDECARD's environment (the solution developed must be checked). For more details on these messages, please see Annex 3 – Causes for Parameterization Error Messages**

## Annex 3 – Causes for Parameterization Error Messages

**1) Code 20 – Missing mandatory parameter**

Not all mandatory parameters were sent. Mandatory parameters must be checked in each WebService method.

**2) Code 21 – Membership number in invalid format**

The membership number is not in its correct format. This field must be numerical and it must contain up to 9 positions.

**3) Code 22 – Number of installments inconsistent with the transaction**

The number of installments is inconsistent with the received transaction type. If the transaction type is not "issuer installments", "merchant installments" or "IATA installments", the transaction must not contain the number of installments. Otherwise, the number of installments must be informed.

**4) Code 23 – Problems in merchant's registration**

The requirement IP is not registered for the corresponding merchant (Membership or Distributor). Therefore, the system rejects the transaction. See the registration of the merchant's parameter.

Besides that, if the IP is registered for the corresponding merchant and if it's accessing the Test WebService method, this error may occur.

**5) Code 24 – Problems in merchant's registration**

The corresponding merchant (Membership or Distributor) is not parameterized to perform WebService transactions via Komerci. See the registration of the merchant's parameters.

**6) Code 25 – Merchant not registered**

The corresponding merchant (Membership or Distributor) is not registered at Komerci.

**7) Code 26 – Merchant not registered**

The corresponding merchant (Membership or Distributor) is not registered at Komerci.

**8) Code 27 – Invalid card**

The card number informed is incorrect, due to one or more of the following reasons:

- ✓ The Mastercard or Visa card is not numerical, with 16 positions.

- ✓ The Diners card doesn't have 14 to 16 numerical positions.

- ✓ The card digit is inconsistent.

**9) Code 28 – CVC2 in invalid format**

The card's security code is incorrect and doesn't have 3 positions, if informed.

**10) Code 29 – Operation not allowed**

The order number exceeds 13 characters for the IATA type transaction (39 or 40).

**11) Code 30 – Missing AVS parameter**

One of the fields inherent to the AVS transactions sent by the **GetAuthorizedAVS** method is missing (Address, CPF-taxpayer's ID, Address Number and Zip Code). In Authorization with AVS these are mandatory fields.

**12) Code 31 – Order number is greater than the allowed (16 positions)**

The order number exceeds 16 positions.

**13) Code 32 – IATA code is invalid or inexistent**

The informed IATA code doesn't exist or is invalid.

**14) Code 33 – Invalid IATA code**

The informed IATA code is invalid.

**15) Code 34 – Distributor is invalid or inexistent**

The distributor code is invalid or it doesn't exist.

**16) Code 35 – Problems in merchant's registration**

The requirement IP is not registered for the corresponding merchant (Membership or Distributor). Therefore, the system rejects the transactions. See the registration of merchant's parameter.

**17) Code 36 – Operation not allowed**

The corresponding merchant (Membership or Distributor) is not parameterized to perform WebService transactions via Komerci. See the registration of merchant's parameter.

**18) Code 37 – Distributor is invalid or inexistent**

The distributor's code is invalid or it doesn't exist.

**19) Code 38 – Operation not allowed in test environment**

Transactions, with amounts that exceed R$ 4.00, may not be performed in the test environment.

**20) Code 39 – Operation not allowed for the informed IATA code**

The operation that refers to the selected transaction code is not allowed for the informed IATA code.

**21) Code 40 – IATA code is invalid or inexistent**

The informed IATA code is invalid or it doesn't exist.

**22) Code 41 – Problems in the merchant's registration**

The merchant (Membership or distributor) is not qualified to perform WebService transactions in Komerci with the corresponding user and password sent as parameter.

**23) Code 42 – Problems in the merchant's user registration**

The merchant (Membership or distributor) is not qualified to perform WebService transactions in Komerci with the corresponding user and password sent as parameter. Or the user and password are incorrect.

**24) Code 43 – Problems in user authentication**

The merchant (Membership or distributor) is not qualified to perform WebService transactions in Komerci with the corresponding user and password sent as parameter. Or the user and password are incorrect.

**25) Code 44 – Incorrect user for tests**

User is incorrect for Test WebService.

**26) Code 45 – Problems in merchant's registration for tests**

User is incorrect for Test WebService.

**27) Code 56 – Invalid Data**

This error occurs when:

- ✓ A field was sent with an incorrect numerical value

- ✓ CPF (taxpayer's ID) is invalid

- ✓ The fields: TOTAL, TRANSACAO, PARCELAS, FILIACAO, NUMPEDIDO, BANDEIRA are empty or are empty in the first authorization step.

- ✓ The TOTAL field is not in the correct format ("Without the thousand point and without the"." as a decimal separator). It's mandatory to have a decimal separator and two decimal places.

- ✓ The FILIACAO field is not numerical or it has spaces or it doesn't correspond to a Membership previously registered at Redecard.

- ✓ The DISTRIBUIDOR field, if completed, doesn't correspond to a numerical field or it contains spaces.

- ✓ The PARCELAS field: doesn't correspond to a numerical field
  - o Contain spaces

  - o Has a value greater than "0", when the transaction type is "full payment/cash"

  - o Doesn't have a value that is greater than "1" when the transaction is "issuer installments", "merchant installments" or "IATA installments", corresponding respectively to codes "06", "08", "40".

- ✓ The transaction type is incorrect. See valid transaction types on page **Erro! Indicador não definido.** (when re-paging, adjust all page references to send errors)

- ✓ Visa doesn't have the AVS service (the AVS parameter must be blank or equal to "N").

- ✓ The TAXAEMBARQUE field, if informed, doesn't correspond to a numerical field with a decimal separator ("."), without the thousand point. Or it contains spaces.

- ✓ The ENTRADA field, if informed, doesn't correspond to a numerical field with a decimal separator ("."), without the thousand point. Or it contains spaces.

## Error Codes for Authorization

| Code | Message |
|------|---------|
| 0 | **Transaction approved** |
| 50, 52, 54, 55, 57, 59, 61, 62, 64, 66, 67, 68, 70, 71, 73, 75, 78, 79, 80, 82, 83, 84, 85, 87, 89, 90, 91, 93, 94, 95, 97, 99 | **Transaction not authorized** |
| 51, 92, 98 | **Merchant is invalid** <br> Please contact Komerci's Technical Support to analyze the parameters and the registration |
| 53 | **Invalid Transaction** Please contact Technical Support to analyze your registration |
| 56, 76, 86 | **Redo the transaction** <br> Your transaction was not completed. <br> Please try again. |
| 58, 63, 65, 69, 72, 77, 96 | **Problems with the card** <br> Please check your card's data. <br> If the error persists, please contact your card's customer service. |
| 60 | **Invalid value –** please check if the parameter was correctly informed. |
| 74 | **No communication at the institution –** AVS reply |
| 81 | **The bank doesn't belong to the network –** AVS reply from non participant issuers and Corporate card |

## Homologation Process

The merchant may initiate the development; however, it must contact Redecard's customer service in order to check if its registration is correct.

It's necessary to analyze if the merchant is entitled to the "SIM" WebService capture function and if the IP´s are correctly registered.

IP´s registering may be done through Redecard's services portal, in the restricted area, and up to 10 IP´s may be registered.

Initially, only test web-methods will be available, with transactions of (1) cent.

To make the system available in production, the merchant must perform a great number of tests, and these tests must be analyzed in Komerci's Transaction Report.

If the transaction's status is "confirmed", it means that the tests were successful. Any status different from "confirmed", it's necessary to review the development.

## Technical Support - Komerci

Redecard has a technical support team to help you with your doubts and problems during the development.

**Before contacting the technical team:**

✓ Have the membership number (merchant) handy. In case you are the developer, inform the company's CNPJ (national business registration) number;

✓ Be sure to read the manual(s) and that the development is accordingly;

✓ Komerci's technical support is not authorized to provide or receive credit card numbers, valid or not, even if only for testing;

✓ Komerci's technical support is not authorized to provide, receive or give assistance on the merchant's source codes or programming languages;

✓ Komerci's technical support is not qualified to provide commercial information.

⚠ **Doubts, regarding the development of Komerci must be directed to Komerci's Technical Support.**

| Contact: Technical Support |
|---|
| **Assistance Telephones:** |
| **Capitals and Metropolitan Areas:** 4001-4433 |
| **Other locations**: 0800-784433 |
| |
| **Service Hours:** |
| From **8:00 am to 8:40 pm,** Monday - Friday (except holidays) |
| |
| Email: loja.virtual@redecard.com.br |

**Always access redecard.com.br and learn about some of our services: On-Line Statement, 48h Services (Debit and Credit Searches) and Sales Cancellations.**