

# Remote Subscription API (Quick Start Guide)

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5 marzo, 2025



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## 1 Overview

This document describes in a fast way the Remote Subscription API and quickly show how to get started.

This remote subscription API of Tefpay is used to create a Subscription. The procedure is always validating a client credit card processing with the bank a transaction request that if is succesful creates in Tefpay Backoffice web service panel (<https://backoffice.tefpay.com>) a new subscrition . Tefpay system then periodically executes charges from created subscription that can be managed by the merchant.

Once the subscription request is successfully processed a subscription is created. Once created, the subscription is managed using Tefpay web application Backoffice. The subscription may be managed manually directly by the accounting staff, logging into the Tefpay Backoffice panel web-application.

In addition, **all subscription management operations are also available to the merchant via a remote Subscription API which we are introducing thorught this document as a quick start guide.**

As an example, the merchant web-application would be able to remotely change the subscription charge date, amount, iteration,... and also manage the current status of an account to suspend, activate o close a current subscription. The API is using a similar HTTPS FORM-POST REQUEST to Tefpay system similar to when the transaction request to create a new subscription.

To Create a new subscriptions is always required to execute correctly a transaction where there is a payment or Credit Card validation process terminated succesfully.

## 2 Subscription - To create

Creating a subscription involves two steps but is seen as one unique operation from the perspective of the web-application using this Tefpay Remote Subscription API:

1. Processing the credit card details from the client with optional initial account charge or validation process successfully processed
2. Creating the subscription in the Tefpay Web service system to establish automated periodic charges.
3. The Tefpay Web Service system that manages subscription database and transactions is defined as Tefpay Backoffice. This systems validates all subscription variables and creates a new subscription.

Once all steps have been completed successfully, the subscription is running in Tefpay's Backoffice system, and may be managed interactively there, or via remote API.

### 3 Interacting with Tefpay using callback and re-direct URL's to merchant web-application

The initial interaction with the client and is implemented with the web-application interacting with the client through the web browser, collecting client details and credit card details. Once all client data is validated, Tefpay Payment Gateway may be called with a form-post, specifying all mandatory fields.

Principally, the web-application establishes a callback URL with the **Ds\_Merchant\_Url** parameter, so Tefpay can notify the web-application outside the scope of the current browser session (in the "background"). Should the browser window be accidentally closed by the client during the final steps of the session, Tefpay Payment Gateway is still able to relay the payment status to the web-application. During integration-testing, the callback URL becomes vital in identifying errors in the Subscription API.

Secondly, the client is redirected to merchant-specified final landing pages of the web-application that indicate the completed (**Ds\_Merchant\_UrlOK**) or failed payment process (**Ds\_Merchant\_UrlKO**) the Subscription through the Tefpay Payment Gateway.

## 4 Example - Create subscription via Tefpay Gateway using 3D-Secure or non secure transaction.

The remote subscriptions API always uses Tefpay API T6 to create a new subscription. Please read Tefpay General API doc. And review as well hosted form document.

In this example, the merchant web-application has already captured all client and subscription data, and will execute the payment or CC validation against Tefpay Payment Gateway directly. Tefpay Payment Gateway provides when needed 3D-Secure redirects to the client payment form to Bank, and routes back to merchant web-application landing pages for Credit card authentication success or failure.

The merchant can decide to use different options and transaction authenticated or not 3D secure with initial amount or without. Also in this transaction are included subscriptions variables as subscription amount, initialcharge date, iteration type (day, month,..) , number of iteration (defined or undefined)

### defaults.php:

```
<?php

/* Utility functions */

function logfile($msg)
{
    global $logdir;

    $logfile = $logdir . "/testing_subscription-" . date("Y-m", time()) . ".log";
    $fp = fopen( $logfile, "a");
    fwrite($fp, date("d/m/y H:i:s", time()) . ": " . print_r($msg,true) . "\n");
    fclose($fp);
}

/**
 * Parse Tefpay Payment Gateway Xml Response message and return an array of NVP's
 *
 * @param $xmldata
 * @return array|bool return false, if response were unparsable or empty.
 */
function parseXmlResponse($xmldata)
{
    if (empty($xmldata))
        return false;
    $reader = new XMLReader();
    if ($reader->xml($xmldata) == false){
        return false;
    }
    $data = array();
    $ack = false;
    while ($reader->read()) {
```

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```

        if ($reader->nodeType == XMLREADER::ELEMENT) {
            $name = $reader->localName;
            if ($name == "response"){
                $ack = true;
                continue;
            }
            if ($reader->read() == false)
                continue;
            $value = $reader->value;
            if (empty($name) || is_null($value))
                continue;
            $data[$name] = $value;
        }
    }

    return ($ack?$data:$ack);
}

function ExecPaywebUrl($url, $postData) {
    $useragent = 'Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.13) ' .
        'Gecko/20080311 Firefox/2.0.0.13';

    $headers = array( 'Connection: Keep-Alive' );

    $ch = curl_init($url);
    curl_setopt($ch,CURLOPT_USERAGENT, $useragent);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, true);
    curl_setopt($ch, CURLOPT_FOLLOWLOCATION, false);
    curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 60);
    curl_setopt($ch, CURLOPT_TIMEOUT, 40); // timeout en 40sec
    curl_setopt($ch, CURLOPT_POST, true);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $postData);
    curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

    $responseStream = curl_exec($ch);
    $statusMessage = parseXmlResponse($responseStream);
    $httpcode = curl_getinfo($ch,CURLINFO_HTTP_CODE);

    logfile("ExecPaywebUrl($url): Http Response: $httpcode");
    logfile("ExecPaywebUrl($url): Message from Tefpay Subscription API:");
    logfile($statusMessage);

    curl_close($ch);

    $response = new stdClass;
    $response->httpcode = $httpcode;
    $response->message = $statusMessage;
}

```

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```

    return $response;
}

/* logfile path on server - update accordingly and ensure write access works the folder */
$logdir = "/var/log/xxx";

// The base Path URL of the your web-application
$BASEURL = "https://" . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
$SERVERPATH = substr($BASEURL, 0, strrpos($BASEURL, "/") + 1);

// Test Credit card details
$CC_USERNAME = "John Doe";
$CC_PAN = "4242424242424242";
$CC_CVV = "123";
$CC_EXPIRY = "2012"; // Expiry is December 2020, may be changed to other future expiry
date

$SUBSCR_CLIENTNAME = "Manuel Gonzalez"; // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com"; // so subscription notifications may be
emailed correctly
$SUBSCR_CLIENTLANG = "en"; // es or ca

// Define URL of the callback that is executed by Tefpay
$SUBSCR_CALLBACK = $SERVERPATH . "subscr_notify.php";
// The browser redirect URL for successfull creation of subscription
$REDIRECTURL_OK = $SERVERPATH . "subscr_ok.php";
// The browser redirect URL for failure of subscription creation
$REDIRECTURL_KO = $SERVERPATH . "subscr_ko.php";

// EXAMPLE VARIABLES - DO NOT USE!
// PLEASE SUBSTITUTE WITH TEFPAY-provided values for integration testing */
$MERCHANT_CODE = "V99014566";
$PRIVATEKEY = "098u08uer9flsc09jrre";

$PAYWEBURLHOSTED = "https://intepayments.tefpay.com/";
$PAYWEBURLDIRECT = "https://intesecure02.tefpay.com/paywebv1.6.2/INPUT.php";
$BACKOFFICEURL = "https://botest.tefpay.com/recvsubscr.php";

/* Change this as you are testing more accounts - so this is global for all actions */
/* the account number MUST be exactly 21 digits */
$SUBSCR_ACCOUNTNO = str_pad("2017033120004", 21, "0", STR_PAD_LEFT);

?>

```

#### subscr\_create\_redirect.php:

```

<?php
/* -----
 * Subscription API T6

```

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```

* Create Subscription via direct call to Payweb Gateway, indirect to Backoffice
* Webapp collects CLient CC data (merchant web-app must be PCI-compliant!)
* Uses 3D-secure through Bank, redirect to merchant success / failure page
* -----
*/

function createSubscriptionRequestSignature(
    $merchantSharedkey, $merchantCode, $amount, $SubscriptionAcctNo, $CallbackUrl = ""
)
{
    $buffer = $amount.$merchantCode.$SubscriptionAcctNo.$CallbackUrl.$merchantSharedkey;
    $result = sha1($buffer);

    return $result;
}

ini_set('default_charset', 'UTF-8');
session_start();
require_once("defaults.php");

$SUBSCR_CREATE_ACTION = "C";
$SUBSCR_ACCTDESCR = "A good subscription";
$SUBSCR_INITIALCHARGE = "199"; // 1.99
$SUBSCR_CHARGEAMOUNT = "1999"; // 19.99
$SUBSCR_CURRENCY = "978"; // EUR

$SUBSCR_CLIENTNAME = "Manuel Gonzalez"; // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com"; // so subscription notifications may be
emailed correctly
$SUBSCR_CLIENTLANG = "en"; // es or ca

// CREATE SUBSCRIPTION PARAMETERS
$postData = array();

// PayWeb payment parameters for initial charge (that will allow the subscription to be
created in Backoffice)
$postData['Ds_Merchant_TransactionType'] = "6";
$postData['Ds_Merchant_Subscription_ProcessingMethod'] = "22"; // Initial Charge, 3D-
secure (TRANS_CLIENTEPRESENTE)
$postData['Ds_Merchant_Url'] = $SUBSCR_CALLBACK; // callback should always provided, to
notify merchant webapp
$postData['Ds_Merchant_UrlOK'] = $REDIRECTURL_OK; // client gets re-direct to success
confirmation page
$postData['Ds_Merchant_UrlKO'] = $REDIRECTURL_KO; // client gets re-direct to failure
confirmation page

$postData['Ds_Merchant_MerchantCode'] = $MERCHANT_CODE;

```

```

$postData['Ds_Merchant_Currency'] = $SUBSCR_CURRENCY;
$postData['Ds_Merchant_Amount'] = $SUBSCR_INITIALCHARGE;
$postData['Ds_Merchant_MatchingData'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_Lang'] = $SUBSCR_CLIENTLANG;
$postData['Ds_Merchant_UserName'] = $CC_USERNAME;
$postData['Ds_Merchant_PanMask'] = $CC_PAN;
$postData['Ds_Cvv'] = $CC_CVV;
$postData['Ds_Expiry'] = $CC_EXPIRY; // Expiry is September 2020, may be changed to other
future expiry date
$postData['Ds_Merchant_MerchantSignature'] = createSubscriptionRequestSignature(
    $PRIVATEKEY, $MERCHANT_CODE, $SUBSCR_INITIALCHARGE, $SUBSCR_ACCOUNTNO,
    $SUBSCR_CALLBACK
);

// Subscription-specific parameters for Backoffice
$postData['Ds_Merchant_Subscription_Action'] = $SUBSCR_CREATE_ACTION;
$postData['Ds_Merchant_Subscription_NotifyCostumerByEmail'] = "1"; // establish
notification emails.
$postData['Ds_Merchant_Subscription_Account'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_Subscription_RelFirstCharge'] = "14D";
$postData['Ds_Merchant_Subscription_PeriodType'] = "M";
$postData['Ds_Merchant_Subscription_PeriodInterval'] = "1";
$postData['Ds_Merchant_Subscription_Iteration'] = "0";
$postData['Ds_Merchant_Subscription_Description'] = $SUBSCR_ACCTDESCR;
$postData['Ds_Merchant_Subscription_ChargeAmount'] = $SUBSCR_CHARGEAMOUNT; // the
recurrent subscription charge
$postData['Ds_Merchant_Subscription_ClientName'] = $SUBSCR_CLIENTNAME;
$postData['Ds_Merchant_Subscription_ClientEmail'] = $SUBSCR_CLIENTEMAIL;

logfile(__FILE__ . ": Testing Subscription Create API to URL $PAYWEBURLDIRECT:");
logfile($postData);

// generate http form-post, and auto-submit to Tefpay Payment Gateway
?>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/
html4/loose.dtd">
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title></title>
</head>
<body>
<body onload="sendform()">
<script language="JavaScript">
    function sendform() {
        document.forms[0].submit();
    }
</script>

```

```
<form method="post" action="<?php print $PAYWEBURLDIRECT; ?>" >
  <?php
    foreach ($postData as $key => $value) {
      print "<input type=hidden name='$key' value='$value' />";
    }
  ?>
</form>
```

## 5 Example - Create subscription via Tefpay Gateway using Non-Secure

In this example, the merchant web-application has already captured all client data and credit card details, and will execute the payment authentication against Tefpay Payment Gateway directly. The client is not participating in the transaction. Typically, client details have been captured previously and stored securely on the merchant web-application.

Only CC PAN and Expiry are specified (CVV is not mandatory in Non-Secure operations). **The merchant has been PCI-DSS certified and may capture and store Credit card details.**

**defaults.php:**

```
<?php

/* Utility functions */

function logfile($msg)
{
    global $logdir;

    $logfile = $logdir . "/testing_subscription-" . date("Y-m", time()) . ".log";
    $fp = fopen( $logfile, "a");
    fwrite($fp, date("d/m/y H:i:s", time()) . ": " . print_r($msg,true) . "\n");
    fclose($fp);
}

/**
 * Parse Tefpay Payment Gateway Xml Response message and return an array of NVP's
 *
 * @param $xmldata
 * @return array|bool return false, if response were unparsable or empty.
 */
function parseXmlResponse($xmldata)
{
    if (empty($xmldata))
        return false;
    $reader = new XMLReader();
    if ($reader->xml($xmldata) == false){
        return false;
    }
    $data = array();
    $ack = false;
    while ($reader->read()) {
        if ($reader->nodeType == XMLREADER::ELEMENT) {
            $name = $reader->localName;
            if ($name == "response"){
                $ack = true;
                continue;
            }
        }
    }
}
```

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```

    }
    if ($reader->read() == false)
        continue;
    $value = $reader->value;
    if (empty($name) || is_null($value))
        continue;
    $data[$name] = $value;
}
}

return ($ack?$data:$ack);
}

function ExecPaywebUrl($url, $postData) {
    $useragent = 'Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.13) ' .
        'Gecko/20080311 Firefox/2.0.0.13';

    $headers = array( 'Connection: Keep-Alive' );

    $ch = curl_init($url);
    curl_setopt($ch,CURLOPT_USERAGENT, $useragent);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, true);
    curl_setopt($ch, CURLOPT_FOLLOWLOCATION, false);
    curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 60);
    curl_setopt($ch, CURLOPT_TIMEOUT, 40); // timeout en 40sec
    curl_setopt($ch, CURLOPT_POST, true);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $postData);
    curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

    $responseStream = curl_exec($ch);
    $statusMessage = parseXmlResponse($responseStream);
    $httpcode = curl_getinfo($ch,CURLINFO_HTTP_CODE);

    logfile("ExecPaywebUrl($url): Http Response: $httpcode");
    logfile("ExecPaywebUrl($url): Message from Tefpay Subscription API:");
    logfile($statusMessage);

    curl_close($ch);

    $response = new stdClass;
    $response->httpcode = $httpcode;
    $response->message = $statusMessage;

    return $response;
}

/* logfile path on server - update accordingly and ensure write access works the folder */
$logdir = "/var/log/xxx";

```

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```
// The base Path URL of the your web-application
$BASEURL = "https://" . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
$SERVERPATH = substr($BASEURL, 0, strrpos($BASEURL, "/") + 1);

// Test Credit card details
$CC_USERNAME = "John Doe";
$CC_PAN = "4242424242424242";
$CC_CVV = "123";
$CC_EXPIRY = "2012"; // Expiry is December 2020, may be changed to other future expiry date

$SUBSCR_CLIENTNAME = "Manuel Gonzalez"; // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com"; // so subscription notifications may be emailed correctly
$SUBSCR_CLIENTLANG = "en"; // es or ca

// Define URL of the callback that is executed by Tefpay
$SUBSCR_CALLBACK = $SERVERPATH . "subscr_notify.php";
// The browser redirect URL for successfull creation of subscription
$REDIRECTURL_OK = $SERVERPATH . "subscr_ok.php";
// The browser redirect URL for failure of subscription creation
$REDIRECTURL_KO = $SERVERPATH . "subscr_ko.php";

// EXAMPLE VARIABLES - DO NOT USE!
// PLEASE SUBSTITUTE WITH TEFPAY-provided values for integration testing */
$MERCHANT_CODE = "V99014566";
$PRIVATEKEY = "098u08uer9flsc09jrre";

$PAYWEBURLHOSTED = "https://intepayments.tefpay.com/";
$PAYWEBURLDIRECT = "https://intesecure02.tefpay.com/paywebv1.6.2/INPUT.php";
$BACKOFFICEURL = "https://botest.tefpay.com/recvsubscr.php";

/* Change this as you are testing more accounts - so this is global for all actions */
/* the account number MUST be exactly 21 digits */
$SUBSCR_ACCOUNTNO = str_pad("2017033120004", 21, "0", STR_PAD_LEFT);

?>
```

#### subscr\_create\_manual.php:

```
<?php
/* -----
 * Subscription API T6
 * Create Subscription via direct call to Payweb Gateway, indirect to Backoffice
 * Webapp collects Client CC details (merchant web-app must be PCI-compliant)
 * Execute Non 3D-secure, get embedded XML-response
 * -----
 */
```

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```

function createSubscriptionRequestSignature(
$merchantSharedkey, $merchantCode, $amount, $SubscriptionAcctNo, $CallbackUrl = ""
)
{
    $buffer = $amount.$merchantCode.$SubscriptionAcctNo.$CallbackUrl.$merchantSharedkey;
    $result = sha1($buffer);

    return $result;
}

ini_set('default_charset', 'UTF-8');
session_start();
require_once("defaults.php");

$SUBSCR_CREATE_ACTION = "C";
$SUBSCR_ACCTDESCR = "A good subscription";
$SUBSCR_INITIALCHARGE = "199"; // 1.99
$SUBSCR_CHARGEAMOUNT = "1999"; // 19.99
$SUBSCR_CURRENCY = "978"; // EUR

$SUBSCR_CLIENTNAME = "Manuel Gonzalez"; // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com"; // so subscription notifications may be emailed
correctly
$SUBSCR_CLIENTLANG = "en"; // es or ca

// CREATE SUBSCRIPTION PARAMETERS
$postData = array();

// PayWeb payment parameters for initial charge (that will allow the subscription to be
created in Backoffice)
$postData['Ds_Merchant_TransactionType'] = "6";
$postData['Ds_Merchant_ResponseFormat'] = "xml";
$postData['Ds_Merchant_Subscription_ProcessingMethod'] = "15"; // Initial Charge, NON-3D-
secure (TRANS_MANUAL_CE)
$postData['Ds_Merchant_Url'] = $SUBSCR_CALLBACK; // callback should always provided, to
notify merchant webapp

$postData['Ds_Merchant_MerchantCode'] = $MERCHANT_CODE;
$postData['Ds_Merchant_Currency'] = $SUBSCR_CURRENCY;
$postData['Ds_Merchant_Amount'] = $SUBSCR_INITIALCHARGE;
$postData['Ds_Merchant_MatchingData'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_Lang'] = $SUBSCR_CLIENTLANG;
$postData['Ds_Merchant_UserName'] = $CC_USERNAME;
$postData['Ds_Merchant_PanMask'] = $CC_PAN;
$postData['Ds_Cvv'] = $CC_CVV;

```

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```
$postData['Ds_Expiry'] = $CC_EXPIRY; // Expiry is September 2020, may be changed to other
future expiry date
$postData['Ds_Merchant_MerchantSignature'] = createSubscriptionRequestSignature(
$PRIVATEKEY, $MERCHANT_CODE, $SUBSCR_INITIALCHARGE, $SUBSCR_ACCOUNTNO, $SUBSCR_CALLBACK
);

// Subscription-specific parameters for Backoffice
$postData['Ds_Merchant_Subscription_Action'] = $SUBSCR_CREATE_ACTION;
$postData['Ds_Merchant_Subscription_NotifyCostumerByEmail'] = "1"; // establish
notification emails.
$postData['Ds_Merchant_Subscription_Account'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_Subscription_RelFirstCharge'] = "14D";
$postData['Ds_Merchant_Subscription_PeriodType'] = "M";
$postData['Ds_Merchant_Subscription_PeriodInterval'] = "1";
$postData['Ds_Merchant_Subscription_Iteration'] = "0";
$postData['Ds_Merchant_Subscription_Description'] = $SUBSCR_ACCTDESCR;
$postData['Ds_Merchant_Subscription_ChargeAmount'] = $SUBSCR_CHARGEAMOUNT; // the
recurrent subscription charge
$postData['Ds_Merchant_Subscription_ClientName'] = $SUBSCR_CLIENTNAME;
$postData['Ds_Merchant_Subscription_ClientEmail'] = $SUBSCR_CLIENTEMAIL;

logfile(__FILE__ . ": Testing Subscription Create API to URL $PAYWEBURLDIRECT:");
logfile($postData);

$response = ExecPaywebUrl($PAYWEBURLDIRECT, $postData);

echo __FILE__ . ": Subscription T6, Response fields from Tefpay Gateway:<br>";
echo __FILE__ . ": HTTP Status: " . $response->httpcode . "<br>";
echo __FILE__ . print_r($response->message,true) . "<br>";

?>
```



## 6 Example - Create subscription via Tefpay Hosted Payment

In this example, the merchant web-application has captured client name, address and email, but needs to capture Client Credit Card details outside the merchant web-application, using Tefpay Hosted Payment. Browser URL redirects are specified, so the client is kept in the "universe" of the merchant web-application. Tefpay Payment Gateway provides 3D-Secure redirects to the client Bank, and routes back to merchant web-application landing pages for Credit card authentication success or failure.

**defaults.php:**

```
<?php

/* Utility functions */

function logfile($msg)
{
    global $logdir;

    $logfile = $logdir . "/testing_subscription-" . date("Y-m", time()) . ".log";
    $fp = fopen($logfile, "a");
    fwrite($fp, date("d/m/y H:i:s", time()) . ": " . print_r($msg, true) . "\n");
    fclose($fp);
}

/**
 * Parse Tefpay Payment Gateway Xml Response message and return an array of NVP's
 *
 * @param $xmldata
 * @return array|bool return false, if response were unparsable or empty.
 */
function parseXmlResponse($xmldata)
{
    if (empty($xmldata))
        return false;
    $reader = new XMLReader();
    if ($reader->xml($xmldata) == false) {
        return false;
    }
    $data = array();
    $ack = false;
    while ($reader->read()) {
        if ($reader->nodeType == XMLReader::ELEMENT) {
            $name = $reader->localName;
            if ($name == "response") {
                $ack = true;
                continue;
            }
        }
        if ($reader->read() == false)
            break;
    }
    if ($ack) {
        $data = $reader->getAttributes();
    }
}
```

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```

        continue;
        $value = $reader->value;
        if (empty($name) || is_null($value))
            continue;
        $data[$name] = $value;
    }
}

return ($ack?$data:$ack);
}

function ExecPaywebUrl($url, $postData) {
    $useragent = 'Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.13) ' .
        'Gecko/20080311 Firefox/2.0.0.13';

    $headers = array( 'Connection: Keep-Alive' );

    $ch = curl_init($url);
    curl_setopt($ch,CURLOPT_USERAGENT, $useragent);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, true);
    curl_setopt($ch, CURLOPT_FOLLOWLOCATION, false);
    curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 60);
    curl_setopt($ch, CURLOPT_TIMEOUT, 40); // timeout en 40sec
    curl_setopt($ch, CURLOPT_POST, true);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $postData);
    curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

    $responseStream = curl_exec($ch);
    $statusMessage = parseXmlResponse($responseStream);
    $httpcode = curl_getinfo($ch,CURLINFO_HTTP_CODE);

    logfile("ExecPaywebUrl($url): Http Response: $httpcode");
    logfile("ExecPaywebUrl($url): Message from Tefpay Subscription API:");
    logfile($statusMessage);

    curl_close($ch);

    $response = new stdClass;
    $response->httpcode = $httpcode;
    $response->message = $statusMessage;

    return $response;
}

/* logfile path on server - update accordingly and ensure write access works the folder */
$logdir = "/var/log/xxx";

// The base Path URL of the your web-application

```

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```

$BASEURL = "https://" . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
$SERVERPATH = substr($BASEURL, 0, strrpos($BASEURL, "/") + 1);

// Test Credit card details
$CC_USERNAME = "John Doe";
$CC_PAN = "4242424242424242";
$CC_CVV = "123";
$CC_EXPIRY = "2012"; // Expiry is December 2020, may be changed to other future expiry
date

$SUBSCR_CLIENTNAME = "Manuel Gonzalez"; // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com"; // so subscription notifications may be
emailed correctly
$SUBSCR_CLIENTLANG = "en"; // es or ca

// Define URL of the callback that is executed by Tefpay
$SUBSCR_CALLBACK = $SERVERPATH . "subscr_notify.php";
// The browser redirect URL for successful creation of subscription
$REDIRECTURL_OK = $SERVERPATH . "subscr_ok.php";
// The browser redirect URL for failure of subscription creation
$REDIRECTURL_KO = $SERVERPATH . "subscr_ko.php";

// EXAMPLE VARIABLES - DO NOT USE!
// PLEASE SUBSTITUTE WITH TEFPAY-provided values for integration testing */
$MERCHANT_CODE = "V99014566";
$PRIVATEKEY = "098u08uer9flsc09jrre";

$PAYWEBURLHOSTED = "https://intepayments.tefpay.com/";
$PAYWEBURLDIRECT = "https://intesecure02.tefpay.com/paywebv1.6.2/INPUT.php";
$BACKOFFICEURL = "https://botest.tefpay.com/recvsubscr.php";

/* Change this as you are testing more accounts - so this is global for all actions */
/* the account number MUST be exactly 21 digits */
$SUBSCR_ACCOUNTNO = str_pad("2017033120004", 21, "0", STR_PAD_LEFT);

?>

```

#### subscr\_create\_hosted.php:

```

<?php
/* -----
 * Subscription API T6
 * Create Subscription via Tefpay Hosted API, indirect to Backoffice
 * Merchant doesn't need to be PCI-compliant.
 *
 * Client enters CC on Tefpay Hosted Page, followed by Bank 3D-Secure validation
 * Tefpay redirects to Merchant web-application status page
 * -----
 */

```

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```
function createSubscriptionRequestSignature(
    $merchantSharedkey, $merchantCode, $amount, $SubscriptionAcctNo, $CallbackUrl = ""
)
{
    $buffer = $amount.$merchantCode.$SubscriptionAcctNo.$CallbackUrl.$merchantSharedkey;
    $result = sha1($buffer);

    return $result;
}

ini_set('default_charset', 'UTF-8');
session_start();
require_once("defaults.php");

$SUBSCR_CREATE_ACTION = "C";
$SUBSCR_ACCTDESCR = "A good subscription";
$SUBSCR_INITIALCHARGE = "199"; // 1.99
$SUBSCR_CHARGEAMOUNT = "1999"; // 19.99
$SUBSCR_CURRENCY = "978"; // EUR

// CREATE SUBSCRIPTION PARAMETERS
$postData = array();

// PayWeb payment parameters for initial charge (that will allow the subscription to be
// created in Backoffice)
$postData['Ds_Merchant_TransactionType'] = "6";
$postData['Ds_Merchant_Subscription_ProcessingMethod'] = "22"; // Initial Charge, 3D-
// secure
$postData['Ds_Merchant_Url'] = $SUBSCR_CALLBACK; // callback always provided, notify web-
// application
$postData['Ds_Merchant_UrlOK'] = $REDIRECTURL_OK; // client gets re-direct to success
// confirmation page
$postData['Ds_Merchant_UrlKO'] = $REDIRECTURL_KO; // client gets re-direct to failure
// confirmation page

$postData['Ds_Merchant_MerchantCode'] = $MERCHANT_CODE;
$postData['Ds_Merchant_Currency'] = $SUBSCR_CURRENCY;
$postData['Ds_Merchant_Amount'] = $SUBSCR_INITIALCHARGE;
$postData['Ds_Merchant_MatchingData'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_Lang'] = $SUBSCR_CLIENTLANG;
$postData['Ds_Merchant_Description'] = $SUBSCR_ACCTDESCR; // for default hosted template
$postData['Ds_Merchant_MerchantSignature'] =
    createSubscriptionRequestSignature(
        $PRIVATEKEY, $MERCHANT_CODE, $SUBSCR_INITIALCHARGE, $SUBSCR_ACCOUNTNO,
        $SUBSCR_CALLBACK
    );

// Subscription-specific parameters for Backoffice
```

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```

$postData['Ds_Merchant_Subscription_Action'] = $SUBSCR_CREATE_ACTION;
$postData['Ds_Merchant_Subscription_NotifyCostumerByEmail'] = "1"; // establish
notification emails.
$postData['Ds_Merchant_Subscription_Account'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_Subscription_RelFirstCharge'] = "14D";
$postData['Ds_Merchant_Subscription_PeriodType'] = "M";
$postData['Ds_Merchant_Subscription_PeriodInterval'] = "1";
$postData['Ds_Merchant_Subscription_Iteration'] = "0";
$postData['Ds_Merchant_Subscription_Description'] = $SUBSCR_ACCTDESCR;
$postData['Ds_Merchant_Subscription_ChargeAmount'] = $SUBSCR_CHARGEAMOUNT; // the
recurrent subscription charge
$postData['Ds_Merchant_Subscription_ClientName'] = $SUBSCR_CLIENTNAME;
$postData['Ds_Merchant_Subscription_ClientEmail'] = $SUBSCR_CLIENTEMAIL;

logfile(__FILE__ . ": Testing Remote Subscription Create API to URL $PAYWEBURLHOSTED:");
logfile($postData);

// generate http form-post, and auto-submit to Tefpay Hosted Payment Portal
?>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/
html4/loose.dtd">
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title></title>
</head>
<body>
<body onload="sendform()">
<script language="JavaScript">
    function sendform() {
        document.forms[0].submit();
    }
</script>

<form method="post" action="<?php print $PAYWEBURLHOSTED; ?>" >
    <?php
        foreach ($postData as $key => $value) {
            print "<input type=hidden name='$key' value='$value' />";
        }
    ?>
</form>

```

## 7 Subscription - Remote Management option

Once a subscription has been created via Tefpay Payweb through transaction type 6, the web-application may remote manage the subscription details. The following functionality is available through Tefpay Backoffice Remote Subscription Management API:

- Suspend subscription account (pending charge will not be executed)
- Re-open subscription account (pending charge will be again be executed, catching up, if charge date has become positioned in the past)
- Close Subscription account (can only be re-opened from Tefpay Backoffice interactively through merchant login administrative user)
- Renew Subscription account charge payment details (date, amount, description, etc)

## 8 The Remote Subscription Management API URL

When the web-application needs to manage a subscription remotely, it is accessed through the following URL endpoints, using SSL encryption:

### **Remote Subscription API on Tefpay Backoffice Production**

<https://backoffice.tefpay.com/recvsubscr.php>

For integration testing, equally:

### **Remote Subscription API on Backoffice integration testing**

<https://botest.tefpay.com/recvsubscr.php>

The web-application sends this data using HTTPS POST or to the remote subscription management API.

## 9 Synchronous message response for Subscription Management API

All Subscription management functionalities (change pending subscription date/amount, suspend account, etc), are communicated from the web-application directly to Tefpay Backoffice url via a synchronous message transmission, defined as a HTTPS REQUEST session waiting immediately for the response from the Backoffice server. The response is always delivered in XML format. Here's an example:

```
XML response syntax
<?xml version="1.0" encoding="UTF-8"?>
<response>
<Ds_Message>Subscription account successfully updated</Ds_Message>
<Ds_Code>100</Ds_Code>
</response>
```

### 9.1 Example - Close Subscription Account

### 9.2 Overview

This API call is the request to close an active or suspended subscription, on behalf of an external merchant web-application. The pending (date in the future) subscription charge will hence not be charged. Once a subscription has been closed it is not allowed to update its contents. A closed subscription is not permitted to be re-opened through the API. The merchant account administrator must log into Tefpay Backoffice and change the status interactively.

### 9.3 Mandatory fields

The following fields are mandatory when updating a subscription status. All variable names must be specified in the form-post EXACTLY as written here. They are case-sensitive.

Name	Example value	Description
<b>Ds_Merchant_Subscription_Action</b>	D	When closing a subscription, this field must be specified as "D".
<b>Ds_Merchant_Subscription_Account</b>	1234567	Identifies the subscription account to be closed. The number specified is the same number used when <i>creating</i> the account (the original account number). Must be specified using digits only. Maximum 21 digits. If less than 21

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Name	Example value	Description
		digits are specified, the number will be left-padded with '0' internally by Backoffice System for lookup and identification in the Backoffice database.
<b>Ds_Merchant_MerchantCode</b>	999008980	This is the merchant code as it was supplied by the bank entity for production accounts, or test merchant code if Backoffice Integration server is accessed).
<b>Ds_Signature</b>	1900bc1b5f0d4a7d7a8106b9994a9e74b19a7892	The SHA1 signature as it is provided by the web-application which will be decoded & compared locally to ensure that this request is generated from a trusted source. Please refer to <i>Form-post signature for Management API</i> section.

#### defaults.php:

```
<?php

/* Utility functions */

function logfile($msg)
{
    global $logdir;

    $logfile = $logdir . "/testing_subscription-" . date("Y-m", time()) . ".log";
    $fp = fopen( $logfile, "a");
    fwrite($fp, date("d/m/y H:i:s", time()) . ": " . print_r($msg,true) . "\n");
    fclose($fp);
}
```

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```

}

/**
 * Parse Tefpay Payment Gateway Xml Response message and return an array of NVP's
 *
 * @param $xmldata
 * @return array|bool return false, if response were unparsable or empty.
 */
function parseXmlResponse($xmldata)
{
    if (empty($xmldata))
        return false;
    $reader = new XMLReader();
    if ($reader->xml($xmldata) == false){
        return false;
    }
    $data = array();
    $ack = false;
    while ($reader->read()) {
        if ($reader->nodeType == XMLREADER::ELEMENT) {
            $name = $reader->localName;
            if ($name == "response"){
                $ack = true;
                continue;
            }
            if ($reader->read() == false)
                continue;
            $value = $reader->value;
            if (empty($name) || is_null($value))
                continue;
            $data[$name] = $value;
        }
    }

    return ($ack?$data:$ack);
}

function ExecPaywebUrl($url, $postData) {
    $useragent = 'Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.13) ' .
        'Gecko/20080311 Firefox/2.0.0.13';

    $headers = array( 'Connection: Keep-Alive' );

    $ch = curl_init($url);
    curl_setopt($ch,CURLOPT_USERAGENT, $useragent);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, true);
    curl_setopt($ch, CURLOPT_FOLLOWLOCATION, false);

```

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```

curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 60);
curl_setopt($ch, CURLOPT_TIMEOUT, 40); // timeout en 40sec
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_POSTFIELDS, $postData);
curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

$responseStream = curl_exec($ch);
$statusMessage = parseXmlResponse($responseStream);
$httpcode = curl_getinfo($ch, CURLINFO_HTTP_CODE);

logfile("ExecPaywebUrl($url): Http Response: $httpcode");
logfile("ExecPaywebUrl($url): Message from Tefpay Subscription API:");
logfile($statusMessage);

curl_close($ch);

$response = new stdClass;
$response->httpcode = $httpcode;
$response->message = $statusMessage;

return $response;
}

/* logfile path on server - update accordingly and ensure write access works the folder */
$logdir = "/var/log/xxx";

// The base Path URL of the your web-application
$BASEURL = "https://" . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
$SERVERPATH = substr($BASEURL, 0, strrpos($BASEURL, "/") + 1);

// Test Credit card details
$CC_USERNAME = "John Doe";
$CC_PAN = "4242424242424242";
$CC_CVV = "123";
$CC_EXPIRY = "2012"; // Expiry is December 2020, may be changed to other future expiry
date

$SUBSCR_CLIENTNAME = "Manuel Gonzalez"; // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com"; // so subscription notifications may be
emailed correctly
$SUBSCR_CLIENTLANG = "en"; // es or ca

// Define URL of the callback that is executed by Tefpay
$SUBSCR_CALLBACK = $SERVERPATH . "subscr_notify.php";
// The browser redirect URL for successful creation of subscription
$REDIRECTURL_OK = $SERVERPATH . "subscr_ok.php";
// The browser redirect URL for failure of subscription creation
$REDIRECTURL_KO = $SERVERPATH . "subscr_ko.php";

// EXAMPLE VARIABLES - DO NOT USE!
// PLEASE SUBSTITUTE WITH TEFPAY-provided values for integration testing */

```

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```
$MERCHANT_CODE = "V99014566";
$PRIVATEKEY = "098u08uer9flsc09jrre";

$PAYWEBURLHOSTED = "https://intepayments.tefpay.com/";
$PAYWEBURLDIRECT = "https://intesecure02.tefpay.com/paywebv1.4.14/INPUT.php";
$BACKOFFICEURL = "https://botest.tefpay.com/recvsubscr.php";

/* Change this as you are testing more accounts - so this is global for all actions */
/* the account number MUST be exactly 21 digits */
$SUBSCR_ACCOUNTNO = str_pad("2017033120004", 21, "0", STR_PAD_LEFT);

?>
```

#### subscr\_close.php:

```
<?php

/*
 *-----
 * Subscription Backoffice API
 * Subscription was successfully created via Tefpay Payweb.
 * Merchant Web-application wishes to remotely close subscription account
 * -----
 */

require_once("defaults.php");

/* Action to perform */
$SUBSCR_CLOSE_ACTION = "D";

/* SIGNATURE SEQUENCE FOR SUBSCRIPTION MANAGEMENT */
$sequence = $SUBSCR_ACCOUNTNO.$SUBSCR_CLOSE_ACTION.$MERCHANT_CODE.$PRIVATEKEY;
$signature = sha1($sequence);

/* ASSIGNING VARIABLES FOR REMOTE SUBSCRIPTION MANAGEMENT */

$postData['Ds_Merchant_Subscription_Account'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_MerchantCode'] = $MERCHANT_CODE;
$postData['Ds_Merchant_Subscription_Action'] = $SUBSCR_CLOSE_ACTION;
$postData['Ds_Signature'] = $signature;

$response = ExecPaywebUrl($BACKOFFICEURL, $postData);

if ( $response->httpcode == false || $response->httpcode == 0 ) {
    //
    -----
    -----
}
```

```
// No response string from Backoffice. This could indicate either server is down or
// service did not respond properly
//
-----
$errmsg = __FILE__ . ": No response from Subscription API ($url) !";
} else {
    if ($response->message["Ds_Code"] == 100) {
        // remote subscription API acknowledged successful action
        $errmsg = __FILE__ . ": Subscription API action completed successfully";
    } else {
        // Handle error...
        $errmsg = __FILE__ . ": Subscription API action failed: '" .
            $response->message["Ds_Message"] .
            "' (" . $response->message["Ds_Code"] . ")";
    }
}

logfile($errmsg);
echo $errmsg;

?>
```

## 9.4 Example - Re-Open Subscription Account

## 9.5 Overview

This API call is the request to re-open a suspended or expired subscription, on behalf of an external merchant web-application. It is allowed to re-open a suspended subscription, to edit the subscription details and to continue the charging process.

**A closed subscription is not allowed to be re-open remotely via this API. Only is possible to re-open a suspended subscription.**

Important: When re-opening a suspended subscription, ensure to update the old pending charge date to a correct future date; the old pending charge date is still in effect, thus if the subscription is re-opened, the pending charge date in the past will be executed (to catch up) during Backoffice automated execution at 02AM every day.

## 9.6 Mandatory fields

The following fields are mandatory when updating a subscription. All variable names must be specified in the form-post EXACTLY as written here. They are case-sensitive.

Name	Example value	Description
Ds_Merchant_Subscription_Action	0	When re-opening a subscription, this

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Name	Example value	Description
		field must be specified as "O".
<b>Ds_Merchant_Subscription_Account</b>	1234567	Identifies the subscription account number. The number specified is the same number used when <i>creating</i> the account (the original account number). Must be specified using digits only. Maximum 21 digits. If less than 21 digits are specified, the number will be left-padded with '0' internally by Backoffice System for lookup and identification in the Backoffice database.
<b>Ds_Merchant_MerchantCode</b>	999008980	This is the merchant code as it was supplied by the bank entity for production accounts, or test merchant code if Backoffice Integration server is accessed).
<b>Ds_Signature</b>	1900bc1b5f0d4a7d7a8106b9994a9e74b19a7892	The SHA1 signature as it is provided by the web-application which will be decoded & compared locally to ensure that this request is generated from a trusted source. Please refer to <i>Form-post signature for Management API</i> section

**defaults.php:**

```

<?php

/* Utility functions */

function logfile($msg)
{
    global $logdir;

    $logfile = $logdir . "/testing_subscription-" . date("Y-m", time()) . ".log";
    $fp = fopen( $logfile, "a");
    fwrite($fp, date("d/m/y H:i:s", time()) . ": " . print_r($msg,true) . "\n");
    fclose($fp);
}

/**
 * Parse Tefpay Payment Gateway Xml Response message and return an array of NVP's
 *
 * @param $xmldata
 * @return array|bool return false, if response were unparsable or empty.
 */
function parseXmlResponse($xmldata)
{
    if (empty($xmldata))
        return false;
    $reader = new XMLReader();
    if ($reader->xml($xmldata) == false){
        return false;
    }
    $data = array();
    $sack = false;
    while ($reader->read()) {
        if ($reader->nodeType == XMLREADER::ELEMENT) {
            $name = $reader->localName;
            if ($name == "response"){
                $sack = true;
                continue;
            }
            if ($reader->read() == false)
                continue;
            $value = $reader->value;
            if (empty($name) || is_null($value))
                continue;
            $data[$name] = $value;
        }
    }

    return ($sack?$data:$sack);
}

```

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```

}

function ExecPaywebUrl($url, $postData) {
    $useragent = 'Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.13) ' .
        'Gecko/20080311 Firefox/2.0.0.13';

    $headers = array( 'Connection: Keep-Alive' );

    $ch = curl_init($url);
    curl_setopt($ch,CURLOPT_USERAGENT, $useragent);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, true);
    curl_setopt($ch, CURLOPT_FOLLOWLOCATION, false);
    curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 60);
    curl_setopt($ch, CURLOPT_TIMEOUT, 40); // timeout en 40sec
    curl_setopt($ch, CURLOPT_POST, true);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $postData);
    curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

    $responseStream = curl_exec($ch);
    $statusMessage = parseXmlResponse($responseStream);
    $httpcode = curl_getinfo($ch,CURLINFO_HTTP_CODE);

    logfile("ExecPaywebUrl($url): Http Response: $httpcode");
    logfile("ExecPaywebUrl($url): Message from Tefpay Subscription API:");
    logfile($statusMessage);

    curl_close($ch);

    $response = new stdClass;
    $response->httpcode = $httpcode;
    $response->message = $statusMessage;

    return $response;
}

/* logfile path on server - update accordingly and ensure write access works the folder */
$logdir = "/var/log/xxx";

// The base Path URL of the your web-application
$BASEURL = "https://" . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
$SERVERPATH = substr($BASEURL, 0, strpos($BASEURL, "/") + 1);

// Test Credit card details
$CC_USERNAME = "John Doe";
$CC_PAN = "4242424242424242";
$CC_CVV = "123";
$CC_EXPIRY = "2012"; // Expiry is December 2020, may be changed to other future expiry
date

```

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```

$SUBSCR_CLIENTNAME = "Manuel Gonzalez";    // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com";    // so subscription notifications may be
emailed correctly
$SUBSCR_CLIENTLANG = "en";                // es or ca

// Define URL of the callback that is executed by Tefpay
$SUBSCR_CALLBACK = $SERVERPATH . "subscr_notify.php";
// The browser redirect URL for successful creation of subscription
$REDIRECTURL_OK = $SERVERPATH . "subscr_ok.php";
// The browser redirect URL for failure of subscription creation
$REDIRECTURL_KO = $SERVERPATH . "subscr_ko.php";

// EXAMPLE VARIABLES - DO NOT USE!
// PLEASE SUBSTITUTE WITH TEFPAY-provided values for integration testing */
$MERCHANT_CODE = "V99014566";
$PRIVATEKEY = "098u08uer9flsc09jrre";

$PAYWEBURLHOSTED = "https://intepayments.tefpay.com/";
$PAYWEBURLDIRECT = "https://intesecure02.tefpay.com/paywebv1.6.2/INPUT.php";
$BACKOFFICEURL = "https://botest.tefpay.com/recvsubscr.php";

/* Change this as you are testing more accounts - so this is global for all actions */
/* the account number MUST be exactly 21 digits */
$SUBSCR_ACCOUNTNO = str_pad("2017033120004", 21, "0", STR_PAD_LEFT);

?>

```

#### subscr\_reopen.php:

```

<?php

/*
 * -----
 * Subscription Backoffice API
 * Subscription was successfully created via Tefpay Payweb.
 * Merchant Web-application wishes to remotely re-open a subscription account
 * -----
 */

require_once("defaults.php");

/* Action to perform */
$SUBSCR_REOPEN_ACTION = "0";

/* SIGNATURE SEQUENCE FOR SUBSCRIPTION MANAGEMENT */
$sequence = $SUBSCR_ACCOUNTNO.$SUBSCR_REOPEN_ACTION.$MERCHANT_CODE.$PRIVATEKEY;
$signature = sha1($sequence);

```

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```

/* ASSIGNING VARIABLES FOR REMOTE SUBSCRIPTION MANAGEMENT */

$postData['Ds_Merchant_Subscription_Account'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_MerchantCode'] = $MERCHANT_CODE;
$postData['Ds_Merchant_Subscription_Action'] = $SUBSCR_REOPEN_ACTION;
$postData['Ds_Signature'] = $signature;

$response = ExecPaywebUrl($BACKOFFICEURL, $postData);

if ( $response->httpcode == false || $response->httpcode == 0 ) {
    //
    -----
    // No response string from Backoffice. This could indicate either server is down or
    service did not respond properly
    //
    -----

    $errmsg = __FILE__ . ": No response from Subscription API ($url) !";
} else {
    if ($response->message["Ds_Code"] == 100) {
        // remote subscription API acknowledged successful action
        $errmsg = __FILE__ . ": Subscription API action completed successfully";
    } else {
        // Handle error...
        $errmsg = __FILE__ . ": Subscription API action failed: '" .
            $response->message["Ds_Message"] .
            "' (" . $response->message["Ds_Code"] . ")";
    }
}

logfile($errmsg);
echo $errmsg;

?>

```

## 9.7 Example - Suspend Subscription Account

## 9.8 Overview

This API call is the request to suspend an active (open) subscription, on behalf of an external merchant web-application. The pending (date in the future) subscription charge will hence not be charged. Once a subscription has been suspended it is not allowed to update its contents. It is allowed to re-open a suspended subscription, then edit the subscription details.

Important: When re-opening a subscription, ensure to update the old pending charge date to a correct future date; the old pending charge date is still in effect, thus if the subscription is re-opened, the pending charge date in the past will be executed (to catch up) during Backoffice automated execution at 02AM every day.

A subscription can be suspended automatically if defined that all merchant's subscriptions must be suspended after x retries failed (defined in Backoffice )

## 9.9 Mandatory fields

The following fields are mandatory when updating a subscription. All variable names must be specified in the form-post EXACTLY as written here. They are case-sensitive.

Name	Example value	Description
<b>Ds_Merchant_Subscription_Action</b>	S	When suspending a subscription, this field must be specified as "S".
<b>Ds_Merchant_Subscription_Account</b>	1234567	Identifies the subscription account to be suspended. The number specified is the same number used when <i>creating</i> the account (the original account number). Must be specified using digits only. Maximum 21 digits. If less than 21 digits are specified, the number will be left-padded with '0' internally by Backoffice System for lookup and identification in the Backoffice database.
<b>Ds_Merchant_MerchantCode</b>	999008980	This is the merchant code as it was supplied by the bank entity for production accounts, or test merchant code if Backoffice Integration server is accessed).
<b>Ds_Signature</b>	1900bc1b5f0d4a7d7a810	The SHA1 signature as it is provided by the web-application which will be

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Name	Example value	Description
	6b9994a9e74b19a7892	decoded & compared locally to ensure that this request is generated from a trusted source. Please refer to <i>Form-post signature for Management API</i> section

### defaults.php:

```
<?php

/* Utility functions */

function logfile($msg)
{
    global $logdir;

    $logfile = $logdir . "/testing_subscription-" . date("Y-m", time()) . ".log";
    $fp = fopen($logfile, "a");
    fwrite($fp, date("d/m/y H:i:s", time()) . ": " . print_r($msg, true) . "\n");
    fclose($fp);
}

/**
 * Parse Tefpay Payment Gateway Xml Response message and return an array of NVP's
 *
 * @param $xmldata
 * @return array|bool return false, if response were unparsable or empty.
 */
function parseXmlResponse($xmldata)
{
    if (empty($xmldata))
        return false;
    $reader = new XMLReader();
    if ($reader->xml($xmldata) == false){
        return false;
    }
    $data = array();
    $ack = false;
    while ($reader->read()) {
        if ($reader->nodeType == XMLReader::ELEMENT) {
            $name = $reader->localName;
            if ($name == "response"){
```

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```

        $ack = true;
        continue;
    }
    if ($reader->read() == false)
        continue;
    $value = $reader->value;
    if (empty($name) || is_null($value))
        continue;
    $data[$name] = $value;
}
}

return ($ack?$data:$ack);
}

function ExecPaywebUrl($url, $postData) {
    $useragent = 'Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.13) ' .
        'Gecko/20080311 Firefox/2.0.0.13';

    $headers = array( 'Connection: Keep-Alive' );

    $ch = curl_init($url);
    curl_setopt($ch,CURLOPT_USERAGENT, $useragent);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, true);
    curl_setopt($ch, CURLOPT_FOLLOWLOCATION, false);
    curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 60);
    curl_setopt($ch, CURLOPT_TIMEOUT, 40); // timeout en 40sec
    curl_setopt($ch, CURLOPT_POST, true);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $postData);
    curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

    $responseStream = curl_exec($ch);
    $statusMessage = parseXmlResponse($responseStream);
    $httpcode = curl_getinfo($ch,CURLINFO_HTTP_CODE);

    logfile("ExecPaywebUrl($url): Http Response: $httpcode");
    logfile("ExecPaywebUrl($url): Message from Tefpay Subscription API:");
    logfile($statusMessage);

    curl_close($ch);

    $response = new stdClass;
    $response->httpcode = $httpcode;
    $response->message = $statusMessage;

    return $response;
}

```

```

/* logfile path on server - update accordingly and ensure write access works the folder */
$logdir = "/var/log/xxx";

// The base Path URL of the your web-application
$BASEURL = "https://" . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
$SERVERPATH = substr($BASEURL, 0, strrpos($BASEURL, "/") + 1);

// Test Credit card details
$CC_USERNAME = "John Doe";
$CC_PAN = "4242424242424242";
$CC_CVV = "123";
$CC_EXPIRY = "2012"; // Expiry is December 2020, may be changed to other future expiry
date

$SUBSCR_CLIENTNAME = "Manuel Gonzalez"; // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com"; // so subscription notifications may be
emailed correctly
$SUBSCR_CLIENTLANG = "en"; // es or ca

// Define URL of the callback that is executed by Tefpay
$SUBSCR_CALLBACK = $SERVERPATH . "subscr_notify.php";
// The browser redirect URL for successfull creation of subscription
$REDIRECTURL_OK = $SERVERPATH . "subscr_ok.php";
// The browser redirect URL for failure of subscription creation
$REDIRECTURL_KO = $SERVERPATH . "subscr_ko.php";

// EXAMPLE VARIABLES - DO NOT USE!
// PLEASE SUBSTITUTE WITH TEFPAY-provided values for integration testing */
$MERCHANT_CODE = "V99014566";
$PRIVATEKEY = "098u08uer9flsc09jrre";

$PAYWEBURLHOSTED = "https://intepayments.tefpay.com/";
$PAYWEBURLDIRECT = "https://intesecure02.tefpay.com/paywebv1.6.2/INPUT.php";
$BACKOFFICEURL = "https://botest.tefpay.com/recvsubscr.php";

/* Change this as you are testing more accounts - so this is global for all actions */
/* the account number MUST be exactly 21 digits */
$SUBSCR_ACCOUNTNO = str_pad("2017033120004", 21, "0", STR_PAD_LEFT);

?>

```

#### subscr\_suspend.php:

```

<?php

/*
*-----
* Subscription Backoffice API
* Subscription was successfully created via Tefpay Payweb.

```

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```

* Merchant Web-application wishes to remotely suspend subscription account
* -----
*/

require_once("defaults.php");

/* Action to perform */
$SUBSCR_SUSPEND_ACTION = "S";

/* SIGNATURE SEQUENCE FOR SUBSCRIPTION MANAGEMENT */
$sequence = $SUBSCR_ACCOUNTNO.$SUBSCR_SUSPEND_ACTION.$MERCHANT_CODE.$PRIVATEKEY;
$signature = sha1($sequence);

/* ASSIGNING VARIABLES FOR REMOTE SUBSCRIPTION MANAGEMENT */

$postData['Ds_Merchant_Subscription_Account'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_MerchantCode'] = $MERCHANT_CODE;
$postData['Ds_Merchant_Subscription_Action'] = $SUBSCR_SUSPEND_ACTION;
$postData['Ds_Signature'] = $signature;

$response = ExecPaywebUrl($BACKOFFICEURL, $postData);

if ( $response->httpcode == false || $response->httpcode == 0 ) {
    //
    -----
    // No response string from Backoffice. This could indicate either server is down or
    service did not respond properly
    //
    -----

    $errmsg = __FILE__ . ": No response from Subscription API ($url) !";
} else {
    if ($response->message["Ds_Code"] == 100) {
        // remote subscription API acknowledged successful action
        $errmsg = __FILE__ . ": Subscription API action completed successfully";
    } else {
        // Handle error...
        $errmsg = __FILE__ . ": Subscription API action failed: '" .
            $response->message["Ds_Message"] .
            "' (" . $response->message["Ds_Code"] . ")";
    }
}

logfile($errmsg);
echo $errmsg;

?>

```

## 9.10 Example - Update Pending Subscription

### 9.11 Overview

This API call is the request to remotely update subscription details. Updating subscription details is about changing the pending charge date, amount, description, charge intervals, client details.

Updating a subscription is done using the mandatory parameters (that identify the merchant and the account), followed by one or more optional fields (the elements of the subscription that needs be changed).

### 9.12 Mandatory fields

The following fields are mandatory when updating a subscription. All variable names must be specified in the form-post EXACTLY as written here. They are case-sensitive.

Name	Example value	Description
<b>Ds_Merchant_Subscription_Action</b>	X	When updating a subscription, this field must be specified as "X".
<b>Ds_Merchant_MerchantCode</b>	999008980	This is the merchant code as it was supplied by the bank entity for production accounts, or test merchant code if Backoffice Integration server is accessed).
<b>Ds_Merchant_Subscription_Account</b>	1234567	Identifies the subscription account number to be updated. The number specified is the same number used when <i>creating</i> the account (the original account number). Must be specified using digits only. Maximum 21 digits. If less than 21 digits are specified, the number will be left-padded with '0' internally by Backoffice System for

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Name	Example value	Description
		lookup and identification in the Backoffice database.
<b>Ds_Signature</b>	1900bc1b5f0d4a7d7a8 106b9994a9e74b19a7892	The SHA1 signature as it is provided by the web-application which will be decoded & compared locally to ensure that this request is generated from a trusted source. Please refer to <i>Form-post signature for Management API</i> section.

## 9.13 Optional fields

The following fields are optional when updating a subscription. At least one field will be specified. All variable names must be specified in the form-post EXACTLY as written here. They are case-sensitive.

Name	Example value	Description
<b>Ds_Merchant_Subscription_ChargeAmount</b>	1130	The specified subscription charge amount. Value is always specified in integer with two decimal digits. 1130 identifies 11,30 .
<b>Ds_Merchant_Subscription_Description</b>	Any text	Specification of the subscription charge text that is displayed in the Backoffice user interface and in client charge notification emails.
<b>Ds_Merchant_Subscription_PeriodType</b>	D, W, M or Y	Specification of the period type: "D" = day, "W" = week, "M" = month and "Y" = year. Used in combination with

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Name	Example value	Description
		<b>Ds_Merchant_Subscription_PeriodInterval.</b>
<b>Ds_Merchant_Subscription_PeriodInterval</b>	any integer value	Specification of the interval of the period, for example 1 x month (every month), 2 x weeks (every 2nd week), 3 x month (every 3rd month), 21 x days (every 21st day). Used in combination with <b>Ds_Merchant_Subscription_PeriodType</b> .
<b>Ds_Merchant_Subscription_ChargeDate</b>	121130	Pending Charge Date is specified in YYYYMMDD format."0" can be specified to use current system date (today's date).
<b>Ds_Merchant_Subscription_Iteration</b>	0 or N > 0	Specification of how many times the subscription period will run, for example 12 times x 1 month. If a 0 is specified, run the subscription infinitely (until credit card expires).
<b>Ds_Merchant_Subscription_ClientName</b>	Any text	Specification of Customer name. Free text format.
<b>Ds_Merchant_Subscription_ClientEmail</b>	email std. format (RFC 2822)	Specification of customer email address. If Merchant requires anonymity, then a generic merchant-specific email can be applied here.

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Name	Example value	Description
<b>Ds_Merchant_Subscription_ClientLanguage</b>	'es' (spanish), 'en' (english)	Two-letter ISO Language code. Specification of what language the client is to be communicated with by email and web pages.
<b>Ds_Merchant_Subscription_NotifyCustomerByEmail</b>	1 or 0	If specified as "1", enable client email notification (when a charge has been executed and for credit card expiry warnings). See <b>Client Notification Emails</b> section for more details.

#### defaults.php:

```
<?php

/* Utility functions */

function logfile($msg)
{
    global $logdir;

    $logfilename = $logdir . "/testing_subscription-" . date("Y-m", time()) . ".log";
    $fp = fopen( $logfilename, "a");
    fwrite($fp, date("d/m/y H:i:s", time()) . ": " . print_r($msg,true) . "\n");
    fclose($fp);
}

/**
 * Parse Tefpay Payment Gateway Xml Response message and return an array of NVP's
 *
 * @param $xmldata
 * @return array|bool return false, if response were unparsable or empty.
 */
function parseXmlResponse($xmldata)
{
    if (empty($xmldata))
        return false;
}
```

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```

$reader = new XMLReader();
if ($reader->xml($xmldata) == false){
    return false;
}
$data = array();
$ack = false;
while ($reader->read()) {
    if ($reader->nodeType == XMLREADER::ELEMENT) {
        $name = $reader->localName;
        if ($name == "response"){
            $ack = true;
            continue;
        }
        if ($reader->read() == false)
            continue;
        $value = $reader->value;
        if (empty($name) || is_null($value))
            continue;
        $data[$name] = $value;
    }
}

return ($ack?$data:$ack);
}

function ExecPaywebUrl($url, $postData) {
    $useragent = 'Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.13) ' .
        'Gecko/20080311 Firefox/2.0.0.13';

    $headers = array( 'Connection: Keep-Alive' );

    $ch = curl_init($url);
    curl_setopt($ch,CURLOPT_USERAGENT, $useragent);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, true);
    curl_setopt($ch, CURLOPT_FOLLOWLOCATION, false);
    curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 60);
    curl_setopt($ch, CURLOPT_TIMEOUT, 40); // timeout en 40sec
    curl_setopt($ch, CURLOPT_POST, true);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $postData);
    curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

    $responseStream = curl_exec($ch);
    $statusMessage = parseXmlResponse($responseStream);
    $httpcode = curl_getinfo($ch,CURLINFO_HTTP_CODE);

    logfile("ExecPaywebUrl($url): Http Response: $httpcode");
    logfile("ExecPaywebUrl($url): Message from Tefpay Subscription API:");
    logfile($statusMessage);
}

```

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```

    curl_close($ch);

    $response = new stdClass;
    $response->httpcode = $httpcode;
    $response->message = $statusMessage;

    return $response;
}

/* logfile path on server - update accordingly and ensure write access works the folder */
$logdir = "/var/log/xxx";

// The base Path URL of the your web-application
$BASEURL = "https://" . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
$SERVERPATH = substr($BASEURL, 0, strrpos($BASEURL, "/") + 1);

// Test Credit card details
$CC_USERNAME = "John Doe";
$CC_PAN = "4242424242424242";
$CC_CVV = "123";
$CC_EXPIRY = "2012"; // Expiry is December 2020, may be changed to other future expiry
date

$SUBSCR_CLIENTNAME = "Manuel Gonzalez"; // replace this for real testing client
$SUBSCR_CLIENTEMAIL = "xxx@myemail.com"; // so subscription notifications may be
emailed correctly
$SUBSCR_CLIENTLANG = "en"; // es or ca

// Define URL of the callback that is executed by Tefpay
$SUBSCR_CALLBACK = $SERVERPATH . "subscr_notify.php";
// The browser redirect URL for successfull creation of subscription
$REDIRECTURL_OK = $SERVERPATH . "subscr_ok.php";
// The browser redirect URL for failure of subscription creation
$REDIRECTURL_KO = $SERVERPATH . "subscr_ko.php";

// EXAMPLE VARIABLES - DO NOT USE!
// PLEASE SUBSTITUTE WITH TEFPAY-provided values for integration testing */
$MERCHANT_CODE = "V99014566";
$PRIVATEKEY = "098u08uer9flsc09jrre";

$PAYWEBURLHOSTED = "https://intepayments.tefpay.com/";
$PAYWEBURLDIRECT = "https://intesecure02.tefpay.com/paywebv1.6.2/INPUT.php";
$BACKOFFICEURL = "https://botest.tefpay.com/recvsubscr.php";

/* Change this as you are testing more accounts - so this is global for all actions */
/* the account number MUST be exactly 21 digits */
$SUBSCR_ACCOUNTNO = str_pad("2017033120004", 21, "0", STR_PAD_LEFT);

?>

```

**subscr\_update.php:**

```

<?php

/*
*-----
* Subscription Backoffice API
* Subscription was successfully created via Tefpay Payweb.
* Merchant Web-application wishes to remotely update subscription account
* Check API for which details of subscription that may be updated
* -----
*/

require_once("defaults.php");

/* Action to perform */
$SUBSCR_UPDATE_ACTION = "X";

/* SIGNATURE SEQUENCE FOR SUBSCRIPTION MANAGEMENT */
$sequence = $SUBSCR_ACCOUNTNO.$SUBSCR_UPDATE_ACTION.$MERCHANT_CODE.$PRIVATEKEY;
$signature = sha1($sequence);

/* ASSIGNING VARIABLES FOR REMOTE SUBSCRIPTION MANAGEMENT */

$postData['Ds_Merchant_Subscription_Account'] = $SUBSCR_ACCOUNTNO;
$postData['Ds_Merchant_MerchantCode'] = $MERCHANT_CODE;
$postData['Ds_Merchant_Subscription_Action'] = $SUBSCR_UPDATE_ACTION;
$postData['Ds_Merchant_Subscription_ChargeDate'] = "170401"; // update the pending charge
date, YYMMDD format
$postData['Ds_Signature'] = $signature;

$response = ExecPaywebUrl($BACKOFFICEURL, $postData);

if ( $response->httpcode == false || $response->httpcode == 0 ) {
//
-----
// No response string from Backoffice. This could indicate either server is down or
service did not respond properly
//
-----
}

$errormsg = __FILE__ . ": No response from Subscription API ($url) !";
} else {
if ($response->message["Ds_Code"] == 100) {
// remote subscription API acknowledged successful action
$errormsg = __FILE__ . ": Subscription API action completed successfully";
} else {
// Handle error...

```

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```

$errormsg = __FILE__ . ": Subscription API action failed: '" .
$response->message["Ds_Message"] .
"' (" . $response->message["Ds_Code"] . ")";
}
}

logfile($errmsg);
echo $errmsg;

?>

```

## 9.14 URL notifications for subscription events

If Merchant has the Notification of Subscription Events option enabled, will receive notifications for each type of event in subscriptions such as create, close, suspend, reopen, renew etc

The URL for these notifications is RefundURL in the MerchantBankCode settings.

Example of post-data of subscription event URL notification

Create subscription:

```

Ds_Merchant_TransactionType 6
Ds_Merchant_MerchantCode 123456789
Ds_Merchant_Amount 60
Ds_Merchant_Reccurrency
Ds_Merchant_MatchingData 0000000000000000123456
Ds_Expiry 2401
Ds_Message Subscription created successfully
Ds_Code 100
Ds_Bank 0081
Ds_Date 200215090100
Ds_AuthorisationCode 110941
Ds_PanMask 1234
Ds_Amount 60
Ds_Merchant_Guarantees 0
Ds_Merchant_Subscription_Action C
Ds_Merchant_Subscription_ClientName sometest@gmail.com
Ds_Merchant_Subscription_ClientEmail sometest@gmail.com
Ds_Merchant_Subscription_ProcessingMethod 22
Ds_Merchant_Subscription_ChargeAmount 3999
Ds_Merchant_Subscription_RelFirstCharge 14D
Ds_Merchant_Subscription_PeriodType M
Ds_Merchant_Subscription_PeriodInterval 1
Ds_Merchant_Subscription_Iteration 0
Ds_Merchant_Subscription_Account 0000000000000000123456
Ds_Merchant_Subscription_Description Test Subscription
Ds_Merchant_Subscription_NotifyCostumerByEmail 0
Ds_Signature a350faa6cb33002ee2dcb4f22de3f933578a4df

```

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```
Ds_Merchant_Url https://mycompany.com/notifications
```

Close subscription:

```
Ds_Merchant_Subscription_Account 0000000000000000123456
Ds_Merchant_MerchantCode 123456789
Ds_Merchant_Subscription_Action D
Ds_Signature 9c5a5766366667249c923b635c7333970a43c0288
Ds_Code 100
Ds_Message Subscription Account successfully closed.
Ds_Merchant_Url https://mycompany.com/notifications
```

Suspend subscription:

```
Ds_Merchant_Subscription_Account 0000000000000000123456
Ds_Merchant_MerchantCode 123456789
Ds_Merchant_Subscription_Action S
Ds_Signature 9c5a5766366667249c923b635c7333970a43c0288
Ds_Code 100
Ds_Message Subscription Account successfully suspended.
Ds_Merchant_Url https://mycompany.com/notifications
```

Re-open subscription:

```
Ds_Merchant_Subscription_Account 0000000000000000123456
Ds_Merchant_MerchantCode 123456789
Ds_Merchant_Subscription_Action O
Ds_Signature 9c5a5766366667249c923b635c7333970a43c0288
Ds_Code 100
Ds_Message Subscription Account successfully activated.
Ds_Merchant_Url https://mycompany.com/notifications
```

## 9.15 URL notifications for subscription charge

If Merchant has the Notification of Subscription charge option enabled, will receive notifications whenever the subscription is charged

The URL for these notifications is RefundURL in the MerchantBankCode settings.

Example of post-data of subscription charge URL notification

```
[Ds_Message] => Aceptada
```

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```
[Ds_Merchant_MatchingData] => 0000000000000000123456
[Ds_Bank] => 0081
[Ds_Date] => 200219070743
[Ds_AuthorisationCode] => 123456
[Ds_PanMask] => 5128
[Ds_TransactionId] =>
98dvMUMVGRMCBkMTHFGGG1tHWgVRRRA1VCQ9YXLAEGgRVQ1dSSFhaQAsCTR0aVE0eFRI=
[Ds_Expiry] => 2401
[Ds_Merchant_TransactionType] => 8
[Ds_Amount] => 3999
[Ds_Code] => 100
[Ds_Merchant_NumTransaction] => 1234
[Ds_Merchant_Guarantees] => 0
[Ds_Merchant_MerchantCode] => 123456789
[Ds_Signature] => 6666c2cc96ef0a22224b7777b937bdb0b0912
[Ds_TransactionTime] => 0.022
[Ds_TransactionTimeRec] => 0.001
```

## 9.16 Response status codes

The following list of status codes and messages is returned by the Tefpay Backoffice Subscription management API, accessed both from Tefpay Payment Gateway and when a web-application performs a remote subscription management function.

A successful management functionality always returns **Ds\_Code = 100**. Everything else is regarded as non-successful. The Ds\_Message explains the reason. The "Meaning" column identifies why the problem happened and also specifies in which Subscription action, this status is returned from.

Action code "C" (Create Subscription) and "R" (Renewal) is only available through Tefpay Payment Gateway, Transaction type 6.

Actions codes "S", "O", "X" and "D" is available through Remote Subscription Management API, Tefpay Backoffice.

Ds_Code	Ds_Message	Meaning
100	Subscription account successfully updated	<b>(Ds_Merchant_Subscription_Action = "X")</b> The subscription pending details were successfully updated in Tefpay Backoffice.
100	Subscription account	<b>(Ds_Merchant_Subscription_Action = "S")</b>

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Ds_Code	Ds_Message	Meaning
	successfully suspended	The subscription account were suspended in Tefpay Backoffice. Pending subscription charge will not be executed, until account is re-opened.
100	Subscription account successfully activated	<b>(Ds_Merchant_Subscription_Action = "O")</b> The subscription account were re-opened in Tefpay Backoffice. A pending subscription charge, possibly with a charge date in the past will be executed for charge within 24 hours or less. Ensure to change the charge date, if necessary, to avoid unnecessary transfer of funds from client credit card account.
100	Subscription account successfully closed	<b>(Ds_Merchant_Subscription_Action = "D")</b> The subscription account were closed in Tefpay Backoffice. Pending subscription charge will not be executed. The account can only be re-opened manually again via Tefpay Backoffice. Re-opening a closed account is not permitted via Remote Subscription API.

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Ds_Code	Ds_Message	Meaning
300	No database connection	Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
301	Request Signature Error	The signature calculation done internally in the Subscription API, does not match the <b>Ds_Signature</b> field.
302	Could not create new Merchant Customer record	Tefpay Backoffice was not able to create a new client record to be associated with the subscription (the information specified in the <b>Ds_Merchant_Subscription_ClientName</b> and <b>Ds_Merchant_Subscription_ClientEmail</b> fields).
303	Could not create new Account record	<b>(Ds_Merchant_Subscription_Action = "C")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
304	Could not update existing Account record with credit card authentication data	<b>(Ds_Merchant_Subscription_Action = "R")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
305	Could not create initial Account	<b>(Ds_Merchant_Subscription_Action = "C")</b>

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Ds_Code	Ds_Message	Meaning
	charge (the credit card authentication)	Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
306	Could not update initial Account charge (defining the credit card authentication)	<b>(Ds_Merchant_Subscription_Action = "C")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
307	Subscription already created for account XXXX	<b>(Ds_Merchant_Subscription_Action = "C")</b> The web-application has tried to create a subscription account that already exists.
308	Subscription creation failed	<b>(Ds_Merchant_Subscription_Action = "C")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
309	Could not obtain shared key for merchant account	<b>(All action codes)</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
310	Unknown Subscription Action	<b>(All action codes)</b> The web-application has specified an unknown code in <b>Ds_Merchant_Subscription_Action</b> .

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Ds_Code	Ds_Message	Meaning
311	Subscription Account not found: XXXX	<b>(Ds_Merchant_Subscription_Action = "R")</b> The specified current subscription account number (Ds_Merchant_Subscription_Account) is not found in Tefpay Backoffice.
312	Illegal Subscription Account Status change: Closed->Suspended.	<b>(Ds_Merchant_Subscription_Action = "S")</b> The specified subscription account is already closed and cannot be changed to suspended status.
313	Illegal Subscription Account Status change: Pending->Suspended	<b>(Ds_Merchant_Subscription_Action = "S")</b> The specified subscription account is in pending state (awaiting initial payment authentication) and cannot be changed to suspended status.
314	Subscription Account Suspend FAILED	<b>(Ds_Merchant_Subscription_Action = "S")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
315	Illegal Subscription Account Status change: Closed->Active	<b>(Ds_Merchant_Subscription_Action = "O")</b> The specified subscription account is already closed and cannot be changed to active status.

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Ds_Code	Ds_Message	Meaning
316	Illegal Subscription Account Status change: Pending->Active.	<b>(Ds_Merchant_Subscription_Action = "O")</b> The specified subscription account is in pending state (awaiting initial payment authentication) and cannot be changed to active status.
317	Subscription Account Activate FAILED	<b>(Ds_Merchant_Subscription_Action = "O")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
318	Subscription Account Close FAILED	<b>(Ds_Merchant_Subscription_Action = "D")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
319	Could not retrieve Merchant Customer record.	<b>(Ds_Merchant_Subscription_Action = "X")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
320	Could not update Merchant Customer record.	<b>(Ds_Merchant_Subscription_Action = "X")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.

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Ds_Code	Ds_Message	Meaning
321	Could not retrieve Pending Subscription details.	<b>(Ds_Merchant_Subscription_Action = "X")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
322	Could not update Pending Subscription details.	<b>(Ds_Merchant_Subscription_Action = "X")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
323	Could not retrieve Subscription Charge Interval details.	<b>(Ds_Merchant_Subscription_Action = "X")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
324	Could not update Subscription Charge interval details.	<b>(Ds_Merchant_Subscription_Action = "X")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
325	Subscription Account already created.	<b>(Ds_Merchant_Subscription_Action = "C")</b> The web-application is trying to create a subscription, which has already been created (same account number).
326	'Ds_Merchant_Subscription_Discou	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscri</b>

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Ds_Code	Ds_Message	Meaning
	nt_Amount' not specified.	<b>ption_Action = "X")</b> Mandatory field <b>Ds_Merchant_Subscription_Discount_Amount</b> is not specified (all discount fields must be specified, or none)
327	'Ds_Merchant_Subscription_Discount_Description' not specified.	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "X")</b> Mandatory field <b>Ds_Merchant_Subscription_Discount_Description</b> is not specified (all discount fields must be specified, or none)
328	'Ds_Merchant_Subscription_Discount_Interval' not specified.	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "X")</b> Mandatory field <b>Ds_Merchant_Subscription_Discount_Interval</b> is not specified (all discount fields must be specified, or none)
329	'Ds_Merchant_Subscription_Discount_Cycle' not specified.	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "X")</b> Mandatory field <b>Ds_Merchant_Subscription_Discount_Cycle</b> is not specified (all discount fields must be specified, or none)
330	'Ds_Merchant_Subscription_Discount'	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "X")</b>

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Ds_Code	Ds_Message	Meaning
	nt_Iteration' not specified.	<b>ption_Action = "X")</b> Mandatory field <b>Ds_Merchant_Subscription_Discount_Iteration</b> is not specified (all discount fields must be specified, or none)
331	Illegal: All subscription intervals are defined as discount.	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "X")</b> Ensure that discounts are not specified for all subscription intervals
332	Incorrect: Discount cycle is 0, but multiple iterations are specified.	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "X")</b> Ensure that discounts are not specified for all subscription intervals
333	Illegal: Specified Discount interval cannot point to an already charged subscription.	<b>(Ds_Merchant_Subscription_Action = "X")</b> The total no. of successfully charged transactions + 1 is the current pending interval number.
334	ISO language code not recognized in Ds_Merchant_Subscription_ClientLanguage field	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "X")</b> The two-letter ISO code is unknown in Tefpay Backoffice
335	Could not create missing pending subscription record.	<b>(Ds_Merchant_Subscription_Action = "O")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay

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Ds_Code	Ds_Message	Meaning
		Support, if this error is returned.
336	Pending charge date is updated through new charge interval. Ds_Merchant_Subscription_Charge Date not accepted.	<b>(Ds_Merchant_Subscription_Action = "X")</b> When specifying a change of the charge-interval, the pending charge date will be automatically adjusted. Also specifying pending new charge date is a conflict.
337	Adjustment of old pending charge date to future date failed.	<b>(Ds_Merchant_Subscription_Action = "O")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
350	'Ds_Code' not specified	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.
351	'Ds_Merchant_Subscription_Account' not specified	<b>(All action codes)</b> Mandatory parameter is not specified.
352	'Ds_Merchant_MerchantCode' not specified	<b>(All action codes)</b> Mandatory parameter is not specified.
353	'Ds_PanMask' not specified	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.

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Ds_Code	Ds_Message	Meaning
354	'Ds_Signature' not specified	<b>(All action codes)</b> Mandatory parameter is not specified.
355	'Ds_Merchant_TransactionType' not specified	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.
356	'Ds_Authorisation Code' not specified	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.
357	'Ds_Amount' not specified	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.
358	'Ds_Date' not specified	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.
359	'Ds_Bank' not specified	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.
360	'Ds_Message' not specified	<b>(Ds_Merchant_Subscription_Action = "C", Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.

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Ds_Code	Ds_Message	Meaning
361	'Ds_Merchant_Subscription_StartDate' not specified	<b>(Ds_Merchant_Subscription_Action = "C")</b> Mandatory parameter is not specified.
362	'Ds_Merchant_Subscription_PeriodType' not specified	<b>(Ds_Merchant_Subscription_Action = "C")</b> Mandatory parameter is not specified.
363	'Ds_Merchant_Subscription_PeriodInterval' not specified	<b>(Ds_Merchant_Subscription_Action = "C")</b> Mandatory parameter is not specified.
364	'Ds_Merchant_Subscription_Iteration' not specified	<b>(Ds_Merchant_Subscription_Action = "C")</b> Mandatory parameter is not specified.
365	'Ds_Merchant_Subscription_ClientName' not specified	<b>(Ds_Merchant_Subscription_Action = "C")</b> Mandatory parameter is not specified.
366	'Ds_Merchant_Subscription_ClientEmail' not specified	<b>(Ds_Merchant_Subscription_Action = "C")</b> Mandatory parameter is not specified.
367	'Ds_Merchant_Guarantees' not specified	<b>(Ds_Merchant_Subscription_Action = "C")</b> Mandatory parameter is not specified.
368	'Ds_Merchant_Subscription_Description' not specified	<b>(Ds_Merchant_Subscription_Action = "C")</b> Mandatory parameter is not specified.
369	Merchant account for 'Ds_Merchant_MerchantCode' not available	<b>(All action codes)</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.

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Ds_Code	Ds_Message	Meaning
370	Account is set to closed status. Account Payment details cannot be renewed.	<b>(Ds_Merchant_Subscription_Action = "R")</b> A closed subscription account may not receive renewal of internal token payment tokens
371	Could not retrieve/update Expiry data from Tefpay	<b>(Ds_Merchant_Subscription_Action = "R")</b> Tefpay Backoffice is experiencing an internal error. Please contact Tefpay Support, if this error is returned.
372	'Ds_Merchant_MatchingData_Renew' not specified	<b>(Ds_Merchant_Subscription_Action = "R")</b> Mandatory parameter is not specified.
373	'Ds_Merchant_Subscription_Iteration' parameter is illegal. Must be > 0 for Fractional Amount Mode.	<b>(Ds_Merchant_Subscription_Action = "C")</b> Incorrectly specified parameter, when used with <b>Ds_Merchant_Subscription_Secure = 1.</b>
374	Fractional Amount Subscription is not allowed to be renewed.	<b>(Ds_Merchant_Subscription_Action = "R")</b> A Subscription that is defined with fractional mode, is not renewable.