



Dollar Phone Top Up API

Version 2.10

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Section 1 - Overview

The TopUpApi is a SOAP Web Service API. It is a group of methods within Dollar Phone's Pin Manager API.

The Web Service URL is <https://www.dollarphone.com/pmapi/PinManager.asmx>

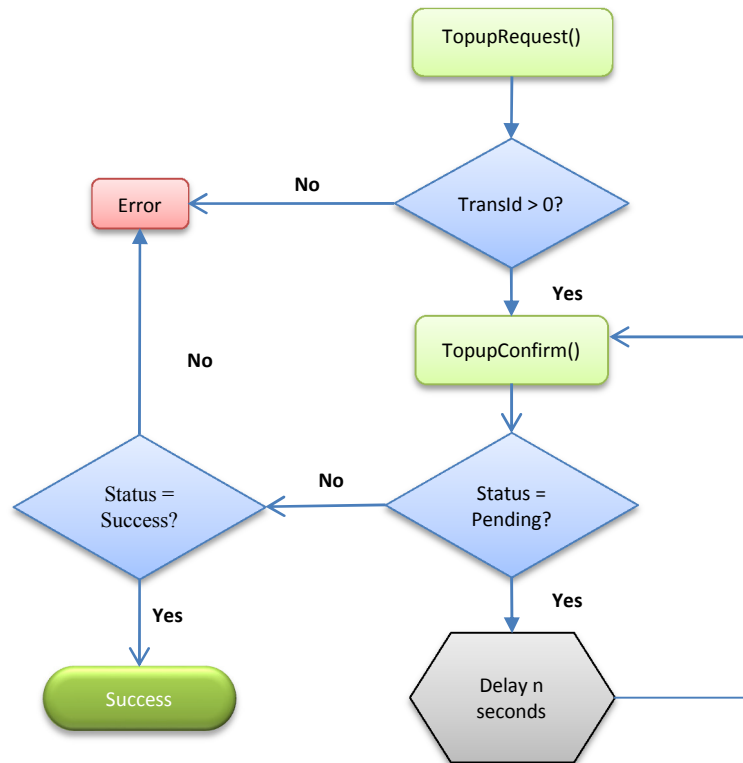
You must have valid user credentials to view or interact with the API. The web service uses NTLM authentication so you must make sure that your development platform supports NTLM.

There can be two types of TopUp transactions:

1. Pin Purchase
2. Add Funds to Phone Number. (RTR)

For each transaction user must provide the Offering ID (aka Product ID) and the dollar amount of the Topup. If the transaction type is "Add Funds to Phone Number" a phone number is also required.

1.1 Process Flow



1. Agent creates a Topup transaction by initiating a request via **TopupRequest** with the relevant parameters.
2. DollarPhone validates the request. If valid adds it to the processing queue and returns a unique id in the *TransId* field. If not valid returns a negative error code.
3. Agent checks *TransId* return value. If negative number then handle error. If positive number initiate a request via **TopupConfirm** passing in the *TransId* value.
4. DollarPhone checks status of transaction. If not processed yet or in middle of processing returns a *Pending* status. Otherwise returns *Success* or *Failed* status.
5. Agent checks status. If Success transaction is complete. If Failed check *ErrorCode* for failure reason and retry if applicable. If *Pending* wait several seconds and repeat step 3.

Section 2 – SOAP Methods

2.1 SOAP METHOD: TopupRequest

All Topup transactions should call the **TopUpRequest()** method. This method takes a parameter of type **TopUpReqType**. Following are the list of fields contained in this type:

Name	Required	Description	Data Type
Action	Y	Can be either PurchasePin or AddFunds	Enum
OfferingId	Y	ID of offering (i.e. product)	Integer
Amount	Y	Amount of top transaction	Decimal
PhoneNumber	Only if Action is AddFunds	Phone number to add the funds to	String
OrderId	N	Unique Id provided by user	String

2.2 SOAP RESPONSE: TopupRequest

TopUpRequest() will respond with a type of **TopUpResp**. Following is a list of the fields contained in this type:

Name	Description	Data Type
responseCode	Will be 1 if the transaction was accepted for processing. Unsuccessful transactions will have a negative code. This is the error code.	Int
responseMessage	Description of Error	String
TransId	ID of the transaction that was created for this request. If transaction was not accepted the TransId will be 0 or negative.	Int

Note: A positive number in the **TransId** field still does not guarantee that the transaction completed successfully. It is only an indication that the request was accepted and added to the processing queue. To get the status of the transaction it is necessary to call the **TopupConfirm()** method. This method has one parameter "**TransId**" which is the **TransId** returned by the **TopUpRequest()** method.

2.3 SOAP METHOD: TopupConfirm

This method must be used to check the status of the topup submitted using TopupRequest.

Name	Required	Description	Data Type
TransID	Y	The number returned from TopupRequest	Int

2.4 SOAP RESPONSE: TopupConfirm

Name	Description	Data Type
Status	Can be of the following values: <ul style="list-style-type: none"> • Success. • Pending. (Check again soon to see if transaction succeeded.) • Failed 	Enum
ID	TransID that was passed in if the TransID is valid.	Int
ErrorCode	Negative number if the transaction failed. See list of possible error codes in "Error Codes" section.	Int
ErrorMsg	Message containing description of error	String
Pin	If requested Action is PurchasePin then the pin will be contained in this field (on success). If transaction fails then this field will be blank.	String
CarrierTransId	The Confirmation number from the carrier if available.	String

It may be necessary to call the TopupConfirm() method several times before a Success or Fail Status is received. It is recommended that it be called in a loop with a delay of several seconds between each call. See sample code at the end of this document.

2.5 SOAP METHOD: GetAgentDue

Use this method to get the current amount due on account.

This method has no input parameters and returns a number as a data type of "double."

Section 3 – SOAP XML Examples

3.1 TopupRequest - Purchase Pin Request

```
<?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>
    <TopUpRequest xmlns="https://dollarphone.com/PMAPI/PinManager">
      <TopUpReq>
        <Action>PurchasePin</Action>
        <OfferingId>30084223</OfferingId>
        <Amount>29.95</Amount>
      </TopUpReq>
    </TopUpRequest>
  </soap:Body>
</soap:Envelope>
```

3.2 TopupRequest - Add Funds Request

```
<?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>
    <TopUpRequest xmlns="https://dollarphone.com/PMAPI/PinManager">
      <TopUpReq>
        <Action>AddFunds</Action>
        <OfferingId>30027940</OfferingId>
        <Amount>5</Amount>
        <PhoneNumber>525553760001</PhoneNumber>
      </TopUpReq>
    </TopUpRequest>
  </soap:Body>
</soap:Envelope>
```

3.3 TopupConfirm Request

```
<?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>
    <TopupConfirm xmlns="https://dollarphone.com/PMAPI/PinManager">
      <TransID>23145633</TransID>
    </TopupConfirm>
  </soap:Body>
</soap:Envelope>
```

3.4 TopupConfirm Response

```
<?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>
    <TopupConfirmResponse xmlns="https://dollarphone.com/PMAPI/PinManager">
      <TopupConfirmResult>
        <ID xmlns="http://tempuri.org/PPS/Misc">int</ID>
        <Status xmlns="http://tempuri.org/PPS/Misc">Success or Pending or
Failed</Status>
        <ErrorCode xmlns="http://tempuri.org/PPS/Misc">int</ErrorCode>
        <ErrorMsg xmlns="http://tempuri.org/PPS/Misc">string</ErrorMsg>
        <PIN xmlns="http://tempuri.org/PPS/Misc">string</PIN>
        <CarrierTransId
xmlns="http://tempuri.org/PPS/Misc">string</CarrierTransId>
      </TopupConfirmResult>
    </TopupConfirmResponse>
  </soap:Body>
</soap:Envelope>
```

Section 4 – Test Parameters

4.1 Test parameters for RTR

OfferingID: 30027940
Amount: 5, 11, 22

PhoneNumbers – use the numbers from the table below to test different delay times and results

PhoneNumber	Pending Seconds	Final Status
525553760001, 525553760002, 525553760003	0	Success
525553760004	3	Success
525553760005	3	Failed
525553760006	6	Success
525553760007	6	Failed
525553760008	25	Success
525553760009	25	Failed
Any other number	0	Failed

4.2 Test parameters for PIN

OfferingID: 30084223
Amount: 29.95 or 39.95

Section 5 - Error Codes

Code	Description
-1, -2	Invalid Login
-6	Invalid offering
-34	Account past due
-35	Transaction exceeds credit limit
-40	Invalid Phone number
-41	Invalid amount
-42	Invalid Product
-400	Invalid phone number
-401	Processing error
-402	Transaction already completed
-403	Invalid transaction amount
-404	Invalid product
-405	Duplicate transaction
-406	Invalid Transaction Id
-407	Denomination currently unavailable
-408	Transaction amount limit exceeded
-409	Destination Account is not prepaid
-410	Handset was reloaded within the last 10 minutes
-411	TopUp refused

Section 6 – Sample Code

6.1 Vb.Net

```
Dim tu As New dpService.TopUpReqType
Dim tr As dpService.TopUpResp
Dim ts As dpService.TransResponseType

tu.Action = dpService.TopUpAction.AddFunds
tu.OfferingId = 30027940
tu.PhoneNumber = "525553760006" 'Return Success after 6 seconds
tu.Amount = 5

Using pm As New dpService.PinManager
    pm.Credentials = New System.Net.NetworkCredential(user, password)

    tr = pm.TopUpRequest(tu)

    If tr.TransId > 0 Then
        Dim start As DateTime = DateTime.Now

        Do
            Threading.Thread.Sleep(3000)
            ts = pm.TopupConfirm(tr.TransId)

            Loop While ts.Status = dpService.TransactionStatus.Pending _
                AndAlso (DateTime.Now - start).TotalSeconds <= 180

            Select Case ts.Status
                Case pmapi.TransactionStatus.Success
                    'Success handling
                Case pmapi.TransactionStatus.Failed
                    'Failed Handling
                Case pmapi.TransactionStatus.Pending
                    'Still pending after 180 sec then treat as failed
            End Select
        Else
            'Error handling...
        End If
    End Using
```

6.2 PHP

```
<?php
$url = "https://www.dollarphone.com/pmapi/pinmanager.asmx";
$user = "username";
$pwd = "password";

$headers = array(
    "Content-type: text/xml; charset=utf-8",
    "Cache-Control: no-cache",
    "SOAPAction: https://dollarphone.com/PMAPI/PinManager/TopUpRequest",
);

$soap_xml = "<?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>" .
    "<TopUpRequest xmlns='https://dollarphone.com/PMAPI/PinManager'>" .
    "<TopUpReq>" .
    "<Action>PurchasePin</Action>" .
    "<OfferingId>30084223</OfferingId>" .
    "<Amount>29.95</Amount>" .
    "</TopUpReq>" .
    "</TopUpRequest>" .
    "</soap:Body>" .
    "</soap:Envelope>";

$res_xml = sendRequest($url,$user,$pwd,$soap_xml,$headers);

$stu_res = $res_xml->children('soap', true)->Body->children()->TopUpRequestResponse->TopUpRequestResult;

echo "<p>TransId: " . $stu_res->TransId . "</p>";

if ($stu_res->TransId <= 0) exit();

$soap_xml = "<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>" .
    "<TopupConfirm xmlns='https://dollarphone.com/PMAPI/PinManager'>" .
    "<TransID>" . $stu_res->TransId . "</TransID>" .
    "</TopupConfirm>" .
    "</soap:Body>" .
    "</soap:Envelope>";

$headers[2] = "SOAPAction: https://dollarphone.com/PMAPI/PinManager/TopupConfirm";

do
{
    sleep(1);
    $res_xml = sendRequest($url,$user,$pwd,$soap_xml,$headers);
    $tc_res = $res_xml->children('soap', true)->Body->children()->TopupConfirmResponse->children()->TopupConfirmResult->children();
} while ($tc_res->Status == "Pending");

if ($tc_res->Status == "Success") {
    echo "<p>PIN: <b>" . $tc_res->PIN . "</b></p>";
} else {
    echo "<p>Failed</p>";
}

function sendRequest($url,$user,$pwd,$xml,$headers) {
    $ch = curl_init();

    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_USERPWD, $user . ':' . $pwd);
    curl_setopt($ch, CURLOPT_HTTPAUTH, CURLAUTH_NTLM);
    curl_setopt($ch, CURLOPT_POST, true);
    curl_setopt($ch, CURLOPT_POSTFIELDS, $xml);
    curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

    $res = curl_exec($ch);

    curl_close($ch);
    //echo "<xmp>" . $res . "</xmp>";

    $res_xml = simplexml_load_string($res);

    return $res_xml;
}
?>
```