

CellPoint Mobile  
mPointTM – INTERNET APIs

Table of contents

[1 Integrating with mPoint 4](#_Toc362891473)

[1.1 Internet API 4](#_Toc362891474)

[1.2 Capture API 13](#_Toc362891475)

[1.3 Callback API 15](#_Toc362891476)

[1.4 Single Sign-On API 16](#_Toc362891477)

[2 mPoint CSS Classes 18](#_Toc362891478)

[Appendix A – Mobile Network Operators 20](#_Toc362891479)

[Appendix B – Sample CSS file 23](#_Toc362891480)

[Appendix C – Sample API Calls 26](#_Toc362891481)

[Internet API 26](#_Toc362891482)

[Capture API 26](#_Toc362891483)

[Callback API 26](#_Toc362891484)

[Single Sign-On API 27](#_Toc362891485)

Terms & Definitions

Throughout the document, terms in **bold** are products and concepts such as “SMS Receipt” are quoted.

Additionally, the list below explains the different terms, which are used in several sections of this document:

**SMS** – Short Message Service

**MO** – Mobile Originated, a message, which has been sent FROM a mobile phone.

**MT** – Mobile Terminated, a message, which is being sent TO a mobile phone.

**PMT** – Premium MT, a message, which the end-user incurs a charge for receiving.

**MSISDN** - Mobile Subscriber ISDN Number, the End-User’s mobile number.

**MCC** – Mobile Country Code

**IDC** – International Dialling Code, the first 1 to 3 digits in a MSISDN, which indicates, which country the end-user is in.

**Channel** – The short code all messages are routed through.

**Operator** – The mobile network on, which the end-user is a subscriber.

**MNC** – Mobile Network Code for the Operator

**Client** – An external service / application that uses **mPoint** to process payments on the mobile phone.

**Keyword** – The first word in the MO message, which **mPoint** uses to determine the price for transactions instantiated via SMS.

**End-user** – A wireless subscriber from an operator who uses **mPoint** and thereby becomes a customer.

# Integrating with mPoint

To integrate a Website or Mobile Internet site with **mPoint**, the client may use 4 of  
**mPoint’s** APIs:

* Payment API
* Capture API
* Callback API
* Single Sign-On API

The Payment API allows the client to initialise a new payment transaction through **mPoint** where as the Callback API will automatically notify the client’s back office of the end status for a payment.

## Payment API

**mPoint’s** Payment API is used for payment transactions where the customer is already on an external website or mobile internet site and **mPoint** is simply used for processing the payment. This approach is used in the following scenarios:

* e-Commerce from Internet Sites
* m-Commerce from Mobile Internet Sites

The API is available at <https://mpoint.cellpointmobile.com/buy/web.php> and accepts the parameters described by the table below via HTTP POST.

Please note that all parameters are lowercase and must be URL encoded prior to being passed to **mPoint**.

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field** | **Type** | **M/O\*** | **Description** |
| clientid | Integer | M | Client’s unique ID for **mPoint** |
| account | Integer | O | ID or Number for the sub-account that the payment transaction should be associated with. Account ID is an integer greater than 100000 and Account Number is an integer smaller than 1000.  The payment transaction will be associated with the default sub-account if this parameter is omitted. |
| orderid | String | O | Client’s Order ID for the transaction. |
| mobile | Integer | M | MSISDN of the customer without International Dialling Code |
| operator | Integer | O | ID of the customer’s Mobile Network Operator, it is recommended to include this parameter in the request to ensure that **mPoint** correctly interacts with the Operator.  Please refer to [Appendix A – Mobile Network Operators](#_Appendix_A_-) for details on this parameter. |
| email | String | O | The customer’s e-mail address (if available). If this parameter is provided, the E-Mail input field on the “Send E-Mail Receipt” page is automatically pre-populated with this value. |
| customer-ref | String | O | The Client’s reference (unique ID) for this customer. mPoint will use this token to identify the customer. Additionally the customer reference will be included in the request to the specified auth-url to authenticate the customer when paying with a stored card through the **mWallet** module if Single Sign-On is used. |
| amount | Integer | M | Total amount that the customer should be charged for the payment transaction in country’s smallest currency. |
| language | String | O | The language that **mPoint** should use as the default when translating the payment pages. **mPoint** will determine the language using the following steps:  Use the content of the language parameter  Analyse the HTTP Header: Accept-Language provided by the customer's browser  Use the client’s default language  Use the default system language: British English (gb)  **mPoint** will use the client’s default language if this parameter is omitted.  Currently **mPoint** supports the following languages:  Currently **mPoint** supports the following languages:   |  |  | | --- | --- | | Value | Language | | us | American English | | gb | British English | | da | Danish | | sv | Swedish |   **mPoint** language codes are based upon the ISO-639-1 standard, please refer to <http://en.wikipedia.org/wiki/List_of_ISO_639-1_codes> for details. |
| css-url | String | O | Absolute URL to the custom stylesheet file **mPoint** should use for customising the look and feel of the payment pages to match the client’s theme.  Please refer to section 2: [**mPoint** CSS Classes](#_mPoint_CSS_Classes) for details on the classes used by **mPoint** in each instance.  **mPoint** will use the client’s default URL if this parameter is omitted. |
| logo-url | String | O | Absolute URL to the client’s logo which **mPoint** should display on all payment pages. The logo will be resized to have a max width of the screen width of the customer’s mobile phone and a max height of 20% of the mobile phone’s screen height.  It is recommended that the logo is a rectangle with a greater width than height.  **mPoint** will use the client’s default URL if this parameter is omitted. If no client URL has been configured mPoint will simply remove the client logo from the page. This behaviour is useful when mPoint is running embedded within a mobile app. to preserve valuable screen space. |
| accept-url | String | O | Absolute URL where **mPoint** should direct the customer to upon having successfully completed the payment transaction.  **mPoint** will use the client’s default URL if this parameter is omitted. |
| cancel-url | String | O | Absolute URL where **mPoint** should direct the customer to in case he cancels the payment transaction midway.  **mPoint** will use the client’s default URL if this parameter is omitted. |
| callback-url | String | O | Absolute URL to the client’s back office where **mPoint** should send the payment status to.  Please refer to section 1.3: [**mPoint** – Callback API](#_Callback_API) for details.  **mPoint** will use the client’s default URL if this parameter is omitted. |
| icon-url | String | O | Absolute URL to the client’s icon for **mPoint’s** “My Account” / “Use Stored Cards” feature. The icon will be displayed at the top of the “Select payment method” page and provides easy access to the customer’s stored cards and pre-paid account. The icon will be resized to have a max width of 20% of the mobile phone’s screen width.  It is recommended that the logo is a rectangle with a greater width than height.  **mPoint** will use the client’s default URL if this parameter is omitted. |
| auth-url | String | O | Absolute URL where **mPoint** should authenticate the customer when paying with a stored card through the **mWallet** module. **mPoint** will send the provided customer reference and authentication token to this URL for authenticating the customer.  Please refer to section 1.4: [Single Sign-On API](#_Single_Sign-On_API) for details.  **mPoint** will use the configured URL for validating the domain to prevent tampering with the authentication service if the URL is provided. If this parameter is omitted **mPoint** will use the client’s default URL. |
| auth-token | String | O | A onetime token which will be sent to the specified auth-url to authenticate the customer when paying with a stored card through the **mWallet** module if Single Sign-On is used. |
| mac | String | O | The Message Authentication Code is calculated by creating a sha1 hash comprised of the following input fields (in that order):   * clientid * account * orderid * callback-url * amount * auth-url * customer-ref * auth-token * email * mobile * [SALT]   Using MAC calculation secures the information sent by the client to mPointTM by applying the SHA-256 encryption algorithm on key parts of the information sent to protect against tampering. The [SALT] is the client's shared secret used to ensure that the provided MAC is unique. |
| var\_XXX | String | O | Any variable with the “var\_” prefix will be returned to the client upon completion of the payment transaction. Thus the following URLs will receive these parameters as HTTP POST:  accept-url  cancel-url  callback-url |

\* Mandatory / Optional

When receiving a payment request from a client **mPoint** will perform extensive validation of the received data in order to ensure that the payment pages will be rendered correctly on the end-user’s mobile device and the transaction have the greatest chance of succeeding when being sent to the PSP for clearance.

To simplify the process of determining **mPoint’s** response to the message request, **mPoint** will set the HTTP Response code as defined by the table below:

|  |  |
| --- | --- |
| **HTTP Code** | **mPoint Response** |
| 200 | Payment request has been validated successfully and accepted by **mPoint** |
| 400 | Payment request has been rejected by **mPoint** due to a validation error |
| 403 | Client authentication failed |
| 415 | Message was transmitted in an unknown format or using an unsupported Content Type |

In addition to the HTTP Response code, **mPoint** will return one or more status codes along with a description of each code. This allows the client to solve all errors before the next request attempt thereby preventing needless communication with **mPoint**.

The following table offers a complete list of all possible status codes, which **mPoint** may respond with:

|  |  |  |
| --- | --- | --- |
| **Code** | **Type** | **Description** |
| 1000 | Success | Payment Transaction has been successfully initialised |
| 11 | Error | Undefined Client ID |
| 12 | Error | Invalid Client ID |
| 13 | Error | Unknown Client ID |
| 14 | Error | Client Disabled |
| 21 | Error | Undefined Account |
| 22 | Error | Invalid Account |
| 23 | Error | Unknown Account ID |
| 24 | Error | Account Disabled |
| 31 | Error | Undefined Mobile |
| 32 | Error | Mobile is too short |
| 33 | Error | Mobile is too long |
| 41 | Error | Undefined Operator ID |
| 42 | Error | Operator ID is too short |
| 43 | Error | Operator ID is too big |
| 51 | Error | Undefined Amount |
| 52 | Error | Amount is too small, amount must be greater than 1 (0,01 of the country's currency) |
| 53 | Error | Amount is too great, amount must be smaller than the max amount specified by the client |
| 67 | Error | Invalid URL found in array of Logo URLs |
| 71 | Error | Undefined Logo URL |
| 72 | Error | Logo URL is too short, min length is 11 characters |
| 73 | Error | Logo URL is too long, max length is 255 characters |
| 74 | Error | Logo URL is malformed |
| 75 | Error | Logo URL is Invalid, no Protocol specified |
| 76 | Error | Logo URL is Invalid, no Host specified |
| 77 | Error | Logo URL is Invalid, no Path specified |
| 81 | Error | Undefined CSS URL |
| 82 | Error | CSS URL is too short, min length is 11 characters |
| 83 | Error | CSS URL is too long, max length is 255 characters |
| 84 | Error | CSS URL is malformed |
| 85 | Error | CSS URL is Invalid, no Protocol specified |
| 86 | Error | CSS URL is Invalid, no Host specified |
| 87 | Error | CSS URL is Invalid, no Path specified |
| 91 | Error | Undefined Accept URL |
| 92 | Error | Accept URL is too short, min length is 11 characters |
| 93 | Error | Accept URL is too long, max length is 255 characters |
| 94 | Error | Accept URL is malformed |
| 95 | Error | Accept URL is Invalid, no Protocol specified |
| 96 | Error | Accept URL is Invalid, no Host specified |
| 97 | Error | Accept URL is Invalid, no Path specified |
| 101 | Error | Undefined Cancel URL |
| 102 | Error | Cancel URL is too short, min length is 11 characters |
| 103 | Error | Cancel URL is too long, max length is 255 characters |
| 104 | Error | Cancel URL is malformed |
| 105 | Error | Cancel URL is Invalid, no Protocol specified |
| 106 | Error | Cancel URL is Invalid, no Host specified |
| 107 | Error | Cancel URL is Invalid, no Path specified |
| 111 | Error | Undefined Callback URL |
| 112 | Error | Callback URL is too short, min length is 11 characters |
| 113 | Error | Callback URL is too long, max length is 255 characters |
| 114 | Error | Callback URL is malformed |
| 115 | Error | Callback URL is Invalid, no Protocol specified |
| 116 | Error | Callback URL is Invalid, no Host specified |
| 117 | Error | Callback URL is Invalid, no Path specified |
| 121 | Error | Undefined Return URL |
| 131 | Error | Undefined Language |
| 132 | Error | Invalid Language, language contains invalid characters which are NOT a-z or \_ |
| 133 | Error | Language not supported |
| 142 | Error | E-Mail address is too short, min length is 4 characters |
| 143 | Error | E-Mail address is too long, max length is 50 characters |
| 144 | Error | E-Mail address contains invalid characters which are NOT a-z 0-9 A-Z æ ø å Æ Ø Å \_ @ . or - |
| 145 | Error | E-Mail address has an invalid format, a valid e-mail address MUST be in the format: {NAME}@{DOMAIN}.{TOP DOMAIN}, i.e. [support@cellpointmobile.com](mailto:support@cellpointmobile.com) |
| 161 | Error | Undefined Icon URL |
| 162 | Error | Icon URL is too short, min length is 11 characters |
| 163 | Error | Icon URL is too long, max length is 255 characters |
| 164 | Error | Icon URL is malformed |
| 165 | Error | Icon URL is Invalid, no Protocol specified |
| 166 | Error | Icon URL is Invalid, no Host specified |
| 167 | Error | Icon URL is Invalid, no Path specified |
| 201 | Error | Undefined Authentication URL |
| 202 | Error | Authentication URL is too short, min length is 11 characters |
| 203 | Error | Authentication URL is too long, max length is 255 characters |
| 204 | Error | Authentication URL is malformed |
| 205 | Error | Authentication URL is Invalid, no Protocol specified |
| 206 | Error | Authentication URL is Invalid, no Host specified |
| 207 | Error | Authentication URL is Invalid, no Path specified |
| 208 | Error | Security Violation: Authentication URL’s domain doesn’t match configured domain. |
| 209 | Error | Security Violation: An Authentication domain must be configured in mPoint to enable this feature. Please contact [support@cellpointmobile.com](mailto:support@cellpointmobile.com) |
| 210 | Error | Security Violation: Invalid Message Authentication Code (MAC). |
| 1001 | Error | Internal Database Error - Unable to generate new Transaction ID. Please contact [support@cellpointmobile.com](mailto:support@cellpointmobile.com) |
| 1002 | Error | Internal Database Error - Unable to create a new Transaction. Please contact [support@cellpointmobile.com](mailto:support@cellpointmobile.com) |
| 1003 | Error | Internal Database Error - Unable to insert new message for Transaction. Please contact support@cellpointmobile.com |
| 1004 | Error | Internal Database Error - Unable to update Transaction. Please contact [support@cellpointmobile.com](mailto:support@cellpointmobile.com) |
| 1011 | Error | Mobile Network Operator not supported |
| 1012 | Error | Internal Communication Error - Message rejected by GoMobile. Please contact [support@cellpointmobile.com](mailto:support@cellpointmobile.com) |
| 1013 | Error | Internal Communication Error - Unable to connect to GoMobile. Please contact [support@cellpointmobile.com](mailto:support@cellpointmobile.com) |

## Capture API

**mPoint’s** Capture API is used to capture the amount for a previously authorized payment transaction to ensure that amount is deducted from the customer’s account. For physical goods capture should be invoked at the time of shipping the goods to the customer, for  
digital merchandise “auto capture” may be enabled for the **mPoint** account.

The Capture API is available at <http://mpoint.cellpointmobile.com/buy/capture.php> and accepts the parameters described by the table below via HTTP POST. **mPoint** will automatically perform a callback to the client upon successfully capturing the amount for the payment transaction.

Please note that all parameters are lowercase and must be URL encoded prior to being passed to **mPoint**.

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field** | **Type** | **M/O\*** | **Description** |
| clientid | Integer | M | Client’s unique ID for **mPoint** |
| account | Integer | O | ID or Number for the sub-account that the payment transaction should be associated with. Account ID is an integer greater than 100000 and Account Number is an integer smaller than 1000.  The payment transaction will be associated with the default sub-account if this parameter is omitted. |
| mpointid | Integer | M | **mPoint**’s unique ID for the payment transaction. |
| orderid | String | O | Client’s Order ID for the transaction. |
| amount | Integer | M | Total amount that should be captured at this time from the customer in country’s smallest currency. This value may not be greater than the original amount used to initiate the payment transaction. |

\* Mandatory / Optional

The table below describes the status codes, which may be returned by **mPoint** when performing a capture on the transaction:

|  |  |  |
| --- | --- | --- |
| **Code** | **Type** | **Description** |
| 1000 | Success | Payment Transaction has been successfully captured |
| 999 | Rejected | Payment was declined by the Payment Service Provider |
| 11 | Error | Undefined Client ID |
| 12 | Error | Invalid Client ID |
| 13 | Error | Unknown Client ID |
| 14 | Error | Client Disabled |
| 21 | Error | Undefined Account |
| 22 | Error | Invalid Account |
| 23 | Error | Unknown Account ID |
| 24 | Error | Account Disabled |
| 51 | Error | Undefined Amount |
| 52 | Error | Amount is too small, amount must be greater than 1 (0,01 of the country's currency) |
| 53 | Error | Amount is too great, amount must be smaller than the max amount specified by the client |
| 171 | Error | Undefined mPoint ID |
| 172 | Error | Invalid mPoint ID |
| 173 | Error | Transaction not found for mPoint ID |
| 174 | Error | Transaction has been disabled |
| 175 | Error | Payment rejected for Transaction |
| 176 | Error | Payment already captured for Transaction |
| 182 | Error | Transaction not found for Order ID |
| 183 | Error | Order ID doesn’t match transaction |
| 184 | Error | Transaction disabled |
| 1001 | Error | Internal Error – Payment Service Provider doesn’t support Capture operation |

## Callback API

When **mPoint** has completed processing a transaction, the system can create a callback to the client as an HTTP POST request to notify the client of the payment status. This request will always originate from the IP of mpoint.cellpointmobile.com.

The callback will include the parameters described by the table below.

Please note that all parameters are lowercase and will be URL encoded prior to being  
passed to the client.

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field** | **Type** | **M/O\*** | **Description** |
| mpoint-id | Integer | M | **mPoint**’s unique ID for the payment transaction. |
| orderid | Integer | M | The Order ID provided by the client upon instantiating the transaction. |
| status | Integer | M | An integer code indicating the status of the transaction. Please refer to the next table for details on the possible status codes. |
| amount | Integer | M | Total amount that the customer was charged for the payment transaction in country’s smallest currency. |
| currency | String | M | The currency that the customer was charged in. |
| mobile | String | M | MSISDN of the customer without International Dialling Code |
| operator | Integer | M | ID of the customer’s Mobile Network Operator.  Please refer to [Appendix A – Mobile Network Operators](#_Appendix_A_-) for details on this parameter. |
| var\_XXX | Mixed | O | Any custom variables passed to **mPoint** when the payment transaction was instantiated. |

\* Mandatory / Optional

The table below describes the status codes, which may be received from **mPoint** to indicate the status of a payment transaction:

|  |  |  |
| --- | --- | --- |
| **Code** | **Type** | **Description** |
| 2000 | Authorised | Payment has been successfully authorised by the Payment Service Provider |
| 2001 | Captured | Payment has been successfully captured by the Payment Service Provider |
| 2010 | Rejected | Payment was declined by the Payment Service Provider |

## Single Sign-On API

**mPoint** has complete support for single sign-on by authenticating the customer transparently with the client when the customer elects to pay with a stored card through the mWallet module. To enable single sign-on the client must provide the “auth-token” in the payment initialization request and an authentication URL must either be configured in mPoint or be provided in the in the payment initialization request. The login will include the parameters described by the table below. This request will always originate from the IP of mpoint.cellpointmobile.com.

Please note that all parameters are lowercase and will be XML encoded prior to being passed to the client.

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field** | **Type** | **M/O\*** | **Description** |
| root | Tag | M | The root tag of the authentication request |
| login | Tag | M | Main tag for the login data |
| login username | String | O | The customer reference provided by the client upon instantiating the transaction. |
| login password | String | M | The authentication token provided by the client upon instantiating the transaction. |

\* Mandatory / Optional

The table below describes the HTTP response codes, which may is expected by **mPoint** to indicate whether the customer is successfully authenticated:

|  |  |
| --- | --- |
| **Code** | **Description** |
| 200 | The client has authenticated the customer and mPoint may authorize the payment using the selected stored card. |
| Other | All other HTTP response codes are treated as authentication failure |

# mPoint CSS Classes

**mPoint** offers several style sheet classes through which a client can control the look and  
feel of the payment flow. The most important CSS classes are described in the table below, please refer to Appendix B – [Sample CSS file](#_Appendix_B_–) for a complete list of classes.

|  |  |  |
| --- | --- | --- |
| **Class** | **Type** | **Description** |
| body, table, div | Tag | Styles defined for each of these tags will affect the general look and feel for every page. **mPoint** uses validated XHTML Mobile 1.0 markup for all pages each of which generally contains both div and table tags. |
| h1 | Tag | Controls the look of the headline on the pages after payment have been successfully completed. |
| a, a:hover | Tag | Controls the look and behaviour of all links. |
| mPoint\_Label | Class | Is used for all labels and captions throughout **mPoint** such as column headings, labels for input fields etc. |
| mPoint\_Info | Class | Is used for displaying general information to the end-user such as the payment progress, help messages etc. |
| mPoint\_Status | Class | Is used when **mPoint** displays status messages to the end-user such as failed input validation, failed lookup etc. |
| td.mPoint\_Number | Class | Is used to control how **mPoint** displays prices |
| tr.mPoint\_Even | Class | Is used to control the look of even row numbers in listings |
| tr.mPoint\_Uneven | Class | Is used to control the look of uneven row numbers in listings |
| input.mPoint\_Button | Class | Is used to control the look of form buttons |
| input.mPoint\_Card\_Button | Class | Is used to control the look for the form buttons when listing the available credit cards. |
| table#products | Id | Is used when displaying products |
| table#receipt | Id | Is used when displaying the payment receipt to the end-user after payment has been successfully completed. |
| div#logo | Id | Is used to control how the client logo is displayed and placed on each page. |
| div#progress | Id | Is used to control how status progression is displayed and placed on each page. |
| div#mPoint | Id | Is used to control how the **mPoint** logo is displayed and placed on each page. |
| div#status | Id | Is used when **mPoint** displays the payment status to the end-user |
| div#terms | Id | Is used to control how the client’s Terms & Conditions will be displayed |
| div#delivery | Id | Is used to control how the delivery information for Physical Sales are displayed |
| div#shipping | Id | Is used to control how the shipping information for Physical Sales are displayed |
| div#email | Id | Is used to control how the input form when sending an e-mail receipt is displayed |
| div#cardinfo | Id | Is used to control how the input form where the customer enters his credit card information is displayed |
| input.number | Class | Is used to control the behaviour for input fields, which should only accept numbers such as the credit card number, expiry date, CVC.  This style should ALWAYS include: *-wap-input-format: '\*N';* to specify that only numbers can be input. |

# 

# Appendix A – Mobile Network Operators

In each country available through **GoMobile**, several Operator Networks exists. The client should always attempt to provide the correct Operator ID for the end-user to ensure that **GoMobile** can take any operator specific behaviour into account when transmitting the MT-SMS to the network.

The “unknown” operator option should only be used if the Operator Network for the recipient is in fact not known or after consulting with Cellpoint Mobile.

### Denmark

|  |  |
| --- | --- |
| **ID** | **Operator** |
| 10000 | Unknown |
| 10001 | TDC |
| 10002 | Telia |
| 10003 | Orange**\*** |
| 10004 | Sonofon |
| 10005 | Tele2\*\* |
| 10006 | 3 |

**\*** Orange was purchased by Telia in 2003 and the Operator Network doesn’t exist anymore in a physical sense as all wireless subscribers from Orange have been moved to Telia.

\*\* Tele2 was purchased by Sonofon in 2008 and the Operator Network doesn’t exist anymore in a physical sense as all wireless subscribers from Tele2 have been moved to Sonofon.

### Sweden

|  |  |
| --- | --- |
| **ID** | **Operator** |
| 10100 | Unknown |
| 10101 | Telia |
| 10102 | Telenor |
| 10103 | 3 |
| 10104 | Tele2 |

### Norway

|  |  |
| --- | --- |
| **ID** | **Operator** |
| 10200 | Unknown |
| 10201 | Telenor |
| 10202 | Netcom |
| 10203 | Ventelo |
| 10204 | Tele2 |

### United Kingdom

|  |  |
| --- | --- |
| **ID** | **Operator** |
| 10300 | Unknown |
| 10301 | O2 |
| 10302 | Vodafone |
| 10303 | 3 |
| 10304 | T-Mobile |
| 10305 | Virgin Mobile |
| 10306 | Orange |
| 10307 | Jersey Telecom |
| 10308 | Cable & Wireless |

### Finland

|  |  |
| --- | --- |
| **ID** | **Operator** |
| 10400 | Unknown |
| 10401 | Sonera |
| 10402 | DNA |
| 10403 | Elisa |
| 10404 | Saunalahti |
| 10405 | Tele Finland |
| 10406 | AMT |

### USA

|  |  |
| --- | --- |
| **ID** | **Operator** |
| 20000 | Unknown |
| 20001 | AT&T Mobility**\*** |
| 20002 | T-Mobile |
| 20003 | Verizon Wireless |
| 20004 | Sprint |
| 20005 | Nextel**\*\*** |
| 20006 | Boost**\*\*** |
| 20007 | Alltel |
| 20008 | Cellular One**\*\*\*** |
| 20009 | Virgin Mobile |
| 20010 | US Cellular |
| 20011 | Boost Unlimited |

**\*** AT&T Mobility is the result of Cingular Wireless’ purchase of the old AT&T Wireless in 2004. In 2006 AT&T bought Bellsouth, which owned Cingular Wireless and created AT&T Mobility from the old Cingular Orange network, which was the result of all Cingular Wireless and AT&T Wireless subscribers.

**\*\*** Sprint bought Nextel and Boost in 2005, the network technologies used are vastly different though and it is therefore expected that moving all subscribers onto one network is a time consuming process.

**\*\*\*** Cellular One was formerly known as Dobson and has recently been acquired by AT&T Mobility. It is expected that all subscribers will be moved to AT&T Mobility.

# Appendix B – Sample CSS file

The sample CSS file in this section will be used by **mPoint** by default if no css-url has been specified when the payment transaction was instantiated and no default css-url has been configured for the client.

Please refer to section 2: [**mPoint** CSS Classes](#_mPoint_CSS_Classes_1) for details.

/\* ========== Tag Classes Start ========== \*/

body

{

margin: *0px* *5px* *0px* *5px*;

}

body, table

{

background-color: *#fff*;

text-align: *left*;

}

body, table, div

{

font-size: *1em*;

font-family: "Trebuchet MS",arial,sans-serif;

color: *#000*;

}

h1

{

font-size: *130%*;

white-space: *nowrap*;

text-align: *center*;

color: *#000*;

}

form, table

{

margin: *0px* *0px* *0px* *0px*;

padding: *0px* *0px* *0px* *0px*;

}

a

{

color: *blue*;

text-decoration: *none*;

}

a:hover

{

text-decoration: *underline*;

}

input.number

{

-wap-input-format: *'\*N'*;

}

/\* ========== Tag Classes End ========== \*/

/\* ========== mPoint Classes Start ========== \*/

.mPoint\_Label

{

font-weight: *bold*;

padding-right: *0.5em*;

padding-top: *0.3em*;

}

.mPoint\_Info

{

font-weight: *normal*;

font-style: *italic*;

color: *#000*;

text-align: *left*;

padding: *0px*;

margin: *0px*;

}

.mPoint\_Status

{

color: *red*;

font-style: *italic*;

padding-top: *0.5em*;

padding-bottom: *0.5em*;

}

td.mPoint\_Number

{

padding-right: *0.5em*;

text-align: *right*;

vertical-align: *bottom*;

}

tr.mPoint\_Even, div.mPoint\_Even

{

}

tr.mPoint\_Uneven, div.mPoint\_Uneven

{

background-color: *#E0E0E0*;

}

input.mPoint\_Button

{

font-weight: *bold*;

border-color: *#6DAADD*;

background-color: *#6c8ca3*;

}

input.mPoint\_Card\_Button

{

border-style: *none*;

background-color: *#fff*;

color: *blue*;

text-decoration: *underline*;

margin: *0px* *0px* *0px* *0px*;

padding: *0px* *0px* *2px* *0px*;

}

/\* ========== mPoint Classes Start ========== \*/

/\* ========== ID Classes Start ========== \*/

table#products tr td

{

padding-left: *3px*;

padding-top: *3px*;

}

table#receipt

{

background-color: *#E0E0E0*;

margin-top: *0.5em*;

margin-bottom: *0.5em*;

}

div#logo, div#progress, div#mPoint, div#status

{

text-align: *center*;

}

div#status table tr td

{

vertical-align: *middle*;

padding-left: *0.5em*;

}

div#terms

{

white-space: *pre*;

}

div#delivery, div#email, div#cardinfo

{

background-color: *#E0E0E0*;

padding-left: *3px*;

padding-bottom: *3px*;

}

div#shipping div table tr td

{

padding-top: *3px*;

padding-left: *3px*;

}

/\* ========== ID Classes End ========== \*/

# Appendix C – Sample API Calls

The code snippets in this section provide examples of how **mPoint** can be integrated with  
each of the APIs available to clients.

Please refer to section 1: [Integrating with **mPoint**](#_Integrating_with_mPoint) for details on the data fields in each example.

## Internet API

<form action="http://mpoint.cellpointmobile.com/buy/web.php" method="post">

<input type=“hidden” name="clientid" value="10000" />

<input type=“hidden” name="account" value="-1" />

<input type=“hidden” name="mobile" value="12345678" />

<input type=“hidden” name="operator" value="10000" />

<input type=“hidden” name="email" value="support@cellpointmobile.com" />

<input type=“hidden” name="amount" value="100" />

<input type=“hidden” name="language" value="da" />

<input type=“hidden” name="logo-url" value="http://demo.ois-inc.com/**mPoint**/\_test/client\_logo.jpg" />

<input type=“hidden” name="css-url" value="http://demo.ois-inc.com/**mPoint**/\_test/styles.css" />

<input type=“hidden” name="accept-url" value="http://demo.ois-inc.com/**mPoint**/\_test/accept.php" />

<input type=“hidden” name="cancel-url" value="http://demo.ois-inc.com/**mPoint**/\_test/cancel.php" />

<input type=“hidden” name="callback-url" value="http://demo.ois-inc.com/**mPoint**/\_test/callback.php" />

<input type=“hidden” name="orderid" value="123abc" />

<input type=“hidden” name="var\_test" value="Test Variable" />

<input type="submit" value="Send" />

</form>

## Capture API

<form action="http://mpoint.cellpointmobile.com/buy/capture.php" method="post">

<input type=“hidden” name="clientid" value="10000" />

<input type=“hidden” name="account" value="-1" />

<input type=“hidden” name="mpointid" value="12345678" />

<input type=“hidden” name="orderid" value="4321" />

<input type=“hidden” name="amount" value="100" />

<input type="submit" value="Send" />

</form>

## Callback API

POST {PATH FROM CALLBACKURL} HTTP/1.0

Host: {HOST FROM CALLBACKRUL}

Referer: mpoint.cellpointmobile.com/callback/dibs.php

User-Agent: mPoint

Content-Length: 122

Content-Type: application/www-url-form-encoded; charset=ISO-8859-15

mpoint-id=123456&

ordered=123abc&

status=2000&

amount=100&

currency=DKK&

mobile=12345678&

operator=10000&

var\_test=Test+Variable

## Single Sign-On API

POST {PATH FROM AUTHENTICATION URL} HTTP/1.0

Host: {HOST FROM AUTHENTICATION URL}

Referer: mpoint.cellpointmobile.com/pay/sys/pay\_account.php

User-Agent: mPoint

Content-Length: 120

Content-Type: text/xml; charset=UTF-8

<?xml version=”1.0” encoding=”UTF-8”?>

<root>

<login>

<username>123abc</username>

<password>hgsdhf$sh</login>

</login>

</root>