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Version 3.2

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Introduction

Cellfservices API version 3.2 allows your applications to communicate directly with the Cellfservices™ server.

You can now order unlock codes, check if an order has been delivered, load your order history, cancel orders, and much more, directly from your own website, without having to log in on Cellfservices.com.

You can integrate the API in your front office, like an unlocking website, to place directly your customers' orders on the Cellfservices server, as well as in your back office, to cancel or retry orders, or to request a code verification.

To deliver unlock codes to your customers, you have the choice to parameter your default delivery emails on the Cellfservices website, or to use a back office or a cron job to periodically check if a specific order has been delivered, and act accordingly.

The API is XML-based, platform-independent, and can be integrated on any OS in any programming language.

Creating my API key

Please contact us at info@cellfservices.com to obtain your API key.

This key, just as your Cellfservices password, must be kept secret.

For security purposes, you can regenerate it at any time. Please note that in this case, any key previously generated will instantly become inactive !

Technical information

The API is located at <https://api.cellfservices.com/xml/api/v3>

All queries are sent via the HTTP POST method.

All exchanges with the API are encoded in UTF-8.

The server returns an easy-to-read XML stream.

The different services provided by the API are identified as Actions.

All API queries must be sent with at least two parameters:

Key : your Cellfservices API key

Action : the service requested.

Other parameters will be required for certain services, please read the detailed information for each Action.

XML stream format

The XML stream always conforms to this template:

```
<?xml version="1.0" encoding="UTF-8" ?> <API>
...
</API>
```

There is no parameters on XML tags, such as `<Tag Parameter="Value">` You will only encounter simple `<Tags>`

A tag can contain either a value ("character data", in fact a simple string) :

```
<Tag>Value</Tag>
```

Or contain other tags :

```
<Tag> <SubTag>
...
</SubTag> </Tag>
```

But not both :

```
<Tag> Value
<SubTag>
...
```

This makes XML parsing easy.

We provide a PHP5 library, that automatically parses this stream for you. You can obviously use any other XML parser in any programming language.

If an error occurs anywhere in the API, a single `<Error>` tag will be shown:

```
<?xml version="1.0" encoding="UTF-8" ?> <API>
<Error>Description of the error</Error>
</API>
```

XML Structure is further detailed in each Action description.

The PHP 5 Library

For quicker integration into your PHP applications, we provide an easy to use PHP library.

Prerequisites

You must have **PHP5** installed on your system. Older versions are deprecated and not supported.

You need to have the **cURL** library installed. There are a lot of chances that this library is already installed on your system; if not, you can ask your system administrator or hosting company to do it for you. To check if you have cURL installed, please just try to execute the api.php file under your hosting environment. If the cURL extension is missing, the Cellfservices library will complain about this.

Configuration

1. Please open the api.php file first, and locate this line: `define('API_KEY', '(XXXX-XXXX-XXXX-XXXX)');`

And replace the X's with your API key (see “Creating my API key” above), for example :

```
define('API_KEY', '(0123-4567-89AB-CDEF)');
```

2. If you're currently debugging your application, and something goes wrong with the API, you can change this line :

```
define('API_DEBUG', false); to :  
define('API_DEBUG', true);
```

The API will now be verbose on errors encountered, if any.

You should however set this parameter to false in production mode, to avoid showing potential error details to your end users (or just disable error displaying in the PHP configuration; this is a standard PHP security practice).

Available functions

All functions are encapsulated into a static class named Cellfservices.

You can call each of these functions statically, without having to instantiate an object. The detail of each function is shown in the following page.

Examples

We provide a set of examples for each service (Action) in the zip archive.

Please have a look at each of these examples for a better understanding of the services !

Function	Parameters	Return value	Description
Cellfservices::CallAPI()	String \$Action [Array \$Parameters]	A string containing the XML stream returned by the Cellfservices server, or false if an error occurs.	Make a call to the Cellfservices API, with the specified service (Action) and zero or more parameters, and return the result.

```
/* Example */
```

```
<?php
echo Cellfservices::CallAPI ( 'AccountInfo' );
?>
```

Function	Parameters	Return value	Description
Cellfservices::ParseXML()	String \$XML	An associative array representing the XML information parsed, Or false if an error occurs.	Parse an XML stream returned by the Cellfservices API, and return the result as a comprehensive associative array.

```
/* Example */
```

```
<?php
print_r ( Cellfservices::ParseXML ( Cellfservices::CallAPI ( 'AccountInfo' ) ) );
?>
```

Function	Parameters	Return value	Description
Cellfservices::CheckIMEI()	String \$IMEI Bool \$Checksum	A boolean value, whether the IMEI number validates or not.	<p>Check if the IMEI number (serial number) of a mobile phone is valid. Setting \$Checksum to true (default) validates it against the standard checksum algorithm.</p> <p>In most of the cases, but not all unfortunately (certain brands fail to comply with the standards), an IMEI that fails to validate will always result in an unavailable code.</p> <p>It's up to you to choose whether to use the checksum or not, for example to warn the user before he submits an IMEI.</p>

```
/* Example */
```

```
<?php
var_dump ( Cellfservices::CheckIMEI ( '000000000000000' ) );
?>
```

Function	Parameters	Return value	Description
Cellfservices::CheckEmail()	String \$Email	A boolean value, whether the email address validates or not.	Check if an email address will be accepted by the API, before submitting it.

```
/* Example */
```

```
<?php
var_dump ( Cellfservices::CheckEmail ( 'user@example.com' ) );
?>
```

Function	Parameters	Return value	Description
Cellfservices::CheckProviderID()	String \$ProviderID	A boolean value, whether the provider ID validates or not.	Check if an Alcatel provider ID will be accepted by the API, before submitting it, for tools where Requires.Provider is True .


```
/* Example */  
<?php  
var_dump ( Cellfservices::CheckProviderID ( 'E221X-2ABCDE1' ) );  
?>
```

In the Cellfservices API, the services are named Actions.

Each “Action” allows your application to perform a specific task : load a list of mobile phones, place an order, etc.

Here is an exhaustive list of the actions:

Action	Description
AccountInfo	Returns information on the Cellfservices account associated with the current API key
GetCableMobiles	Returns a list of mobiles phones supported by a cable service
GetMobiles	Returns a list of supported mobile phones
GetNetworks	Returns a list of mobile phone networks
GetTools	Returns a list of supported unlock tools
GetToolMobiles	Returns a list of mobiles phones supported by a particular unlock tool
GetToolNetworks	Returns a list of mobile phone carriers supported by a particular unlock tool
GetOrders	Returns a list of unlock codes ordered on the Cellfservices account
GetCleanCheckOrders	Returns a list of unlock codes ordered on the Cellfservices account
PlaceOrder	Order an unlock code
PlaceCleanCheckOrder	Order an IMEI check to know if a phone is clean or blacklisted
PlaceCableOrder	Order a license for our Cellfservices Cable software
CancelOrder	Cancel an order waiting for delivery
RetryOrder	Retry an order delivered and unavailable
VerifyOrder	Verify an unlock code delivered

The following pages detail these actions.

*All dates and times in the API are in the **UTC** time zone.*

DESCRIPTION

Returns information on the Cellfservices account associated with the current API key.

PARAMETERS

None.

XML STREAM FORMAT

This is an example. Real data will be different.

```
<API>
  <Email>user@example.com</Email>
  <Credits>0.00</Credits>
  <Currency>USD</Currency>
  <Server.Time>2008-12-01 16:30:45</Server.Time>
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Email	Email address of the account	Always	String
Credits	Credits currently available on the account	Always	Numerical value, with two decimals
Currency	Currency of the account	Always	String (3 chars)
Server.Time	Date and time of the Cellfservices server	Always	YYYY-MM-DD HH:MM:SS

DESCRIPTION

Returns a list of supported mobile phones, sorted by brand.

PARAMETERS

None.

XML STREAM FORMAT

This is an example. Real data will be different.

```
<API>
  <Brand>
    <ID>7</ID>
    <Name>Nokia</Name>
    <Mobile>
      <ID>2174</ID>
      <Name>N95</Name>
      <Photo>https://www.Cellfservices.com/photo/2174.jpg</Photo>
    </Mobile>
    ...
  </Brand>
  ...
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Brand : ID	Brand ID	Always	Digits
Brand : Name	Brand name	Always	String
Mobile : ID	Mobile phone ID	Always	Digits
Mobile : Name	Mobile phone name	Always	String
Mobile : Photo	URL of a 120x120 pixels picture of the mobile phone	Only if a photo is available	String

DESCRIPTION

Returns a list of mobile phone networks, sorted by country.

PARAMETERS

None.

XML STREAM FORMAT

This is an example. Real data will be different.

```
<API>
  <Country>
    <ID>146</ID>
    <Name>U.S.A.</Name>
    <Network>
      <ID>352</ID>
      <Name>T-Mobile</Name>
    </Network >
    ...
  </ Country >
  ...
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Country : ID	Country ID	Always	Digits
Country : Name	Country Name	Always	String
Network : ID	Network ID	Always	Digits
Network : Name	Network Name	Always	String

DESCRIPTION

Returns a list of supported unlock tools, sorted by group.

PARAMETERS

None.

XML STREAM FORMAT

This is an example. Real data will be different.

```
<API>
  <Group>
    <ID>8</ID>
    <Name>United Kingdom networks</Name>
    <Tool>
      <ID>1</ID>
      <Name>Vodafone United Kingdom</Name>
      <Credits>6.00</Credits>
      <SMS>True</SMS>
      <Message>Information message</Message>
      <Delivery.Min>1</Delivery.Min>
      <Delivery.Max>2</Delivery.Max>
      <Delivery.Unit>Day</Delivery.Unit >
      <Requires.Network>None</Requires.Network>
      <Requires.Mobile>None</Requires.Mobile>
      <Requires.Provider>None</Requires.Provider>
      <Requires.PIN>None</Requires.PIN>
      <Requires.KBH>None</Requires.KBH>
      <Requires.MEP>None</Requires.MEP>
      <Requires.PRD>None</Requires.PRD>
      <Requires.Type>None</Requires.Type>
      <Requires.Locks>0</Requires.Locks>
    </Tool>
    ...
  </ Group>
  ...
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Group : ID	Group ID	Always	Digits
Group : Name	Group name	Always	String
Tool : ID	Unlock tool ID	Always	Digits
Tool : Name	Unlock tool name	Always	String
Tool : Credits	Cost of an unlock code on this tool, in credits	Always	Numerical value, with two decimals
Tool : SMS	Whether or not the code can be delivered by SMS	Always	True False
Tool : Message	Information message for this tool (provider holidays, etc.)	Only if a message is available	String
Tool : Delivery.Min	Lower limit for delivery time	Only if the value is relevant and available	Digits
Tool : Delivery.Max	Upper limit for delivery time	Only if the value is relevant and available	Digits
Tool : Delivery.Unit	Delivery time unit	Always	Hour Day Instant Unknown
Tool : Requires.Network	Whether or not the tool needs the original network on which the phone is locked	Always	None Optional Required
Tool : Requires.Mobile	Whether or not the tool needs the model of the locked mobile phone	Always	None Optional Required
Tool : Requires.Provider	Whether or not the tool needs the Provider ID ⁽¹⁾ of the locked mobile phone	Always	None Optional Required
Tool : Requires.PIN	Whether or not the tool needs the PIN (2) of the locked mobile phone	Always	None Optional Required
Tool : Requires.Type	Whether or not the tool needs the Type (3) of the locked mobile phone	Always	None Optional Required
Tool : Requires.KBH	Whether or not the tool needs the KBH (4) of the locked mobile phone	Always	None Optional Required
Tool : Requires.MEP	Whether or not the tool needs the MEP (5) of the locked mobile phone	Always	None Optional Required
Tool : Requires.PRD	Whether or not the tool needs the PRD (5) of the locked mobile phone	Always	None Optional Required
Tool : Requires.Locks	Means how many locks (6) the tool is waiting for. 0 for "no lock required"	Always	Digits [0-5]
Tool : Requires.SN	Whether or not the tool needs the Serial Number of the locked mobile phone	Always	None Optional Required
Tool : Requires.SecRO	Whether or not the tool needs the SecRO of the locked mobile phone	Always	None Optional Required

(1) **Provider ID**: 13-chars code printed on the **sticker located under the battery** on Alcatel phones Format: XXXXX-XXXXXXX

(2) **PIN**: 8-chars alphanumeric ID of BlackBerry phones. Select **Options > Status** to get it on the phone. This is **not** the PIN code of the SIM card!

(3) **Type:** type ***#0000#** on the phone keyboard to find this information.

(4) **KBH :** to find this information on the phone, type → * ← * ← * then go to “Service info”, “Configurations”

(5) **MEP/PRD :** please check Cellfservices to find where to get this information on the phone. Format : MEP-XXXXX-XXX / PRD-XXXXX-XXX (X are numbers)

(6) **Locks:** Locks requested for SonyEricsson phones. Must be chosen among: **NCK**, **NSCK**, **SPK**, **CCK**, and **ESL**.

DESCRIPTION

Returns a list of mobiles phones supported by a particular unlock tool.

Only relevant if the **Requires.Mobile** parameter of the unlock tool is **Optional** or **Required**.

PARAMETERS

Parameter	Description	Required	Type
ID	Unlock tool ID	Yes	Digits

XML STREAM FORMAT

This is an example. Real data will be different.

```
<API>
  <Mobile>
    <ID>2174</ID>
    <Name>Nokia N95</Name>
  </ Mobile>
  ...
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Mobile : ID	Mobile phone ID	Always	Digits
Mobile : Name	Full name of the mobile phone (Brand Model)	Always	String

DESCRIPTION

Returns a list of the mobile phone carriers supported by a particular unlock tool.

Only relevant if the **Requires.Network** parameter of the unlock tool is **Optional** or **Required**.

PARAMETERS

Parameter	Description	Required	Type
ID	Unlock tool ID	Yes	Digits

XML STREAM FORMAT

This is an example. Real data will be different.

```
<API>
  <Network>
    <ID>352</ID>
    <Name>T-Mobile U.S.A.</Name>
  </ Network >
  ...
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Network : ID	Mobile phone carrier ID	Always	Digits
Network : Name	Full name of the carrier (Operator & Country)	Always	String

DESCRIPTION

Returns a list of unlock codes ordered on the Cellfservices account.
 By default, it returns all of the orders if no parameter is sent.
 The parameters allow you to search the history.

PARAMETERS

Parameter	Description	Required	Type
Status	Status of the order	No	Waiting Delivered Canceled
Available	Whether the code is available (implies Status = Delivered)	No	True False
Tool	Unlock tool ID	No	Digits
Mobile	Mobile phone ID	No	Digits
Network	Mobile phone original network ID	No	Digits
IMEI	Mobile phone IMEI	No	Digits (15)
ID	Order number	No	Digits
DateFrom	Order date lower limit	No	YYYY-MM-DD YYYY = Year on 4 digits MM = Month on 2 digits DD = Day on 2 digits
DateTo	Order date upper limit	No	YYYY-MM-DD
DeliveryFrom	Delivery date lower limit	No	YYYY-MM-DD
DeliveryTo	Delivery date upper limit	No	YYYY-MM-DD

XML STREAM FORMAT

This is an example. Real data will be different.

```

<API>
  <Order>
    <ID>123456</ID>
    <Date>2008-10-15 14:30:00</Date>
    <IMEI>0000000000000000</IMEI>
    <Credits>6.00</Credits>
    <Comments>Unlock code for Mike's phone</Comments>
    <Tool>Vodafone United Kingdom</Tool>
    <Tool.ID>1</Tool.ID>
    <Status>Delivered</Status>
    <Available>True</Available>
    <Delivery>2008-10-16 18:15:45</Delivery>
    <Mobile>Nokia N95</Mobile>
    <Mobile.ID>2174</Mobile.ID>
    <Codes>12345678</Codes>
    <Verifiable>True</Verifiable>
  </ Order>
  ...
</API>

```

DESCRIPTION

Order an unlock code. Prior to ordering an unlock code, you must load the tool information (via **GetTools**), and check which parameters are required and send the correct parameters accordingly.

For **Mobile** & **Network** parameters, please check **GetMobiles**, **GetNetworks**, **GetToolMobiles**, **GetToolNetworks**. For a better description of other fields (**Provider**, **PIN**, **KBH**, **MEP**, **PRD**, **Type**, **Locks**), please see **GetTools**.

PARAMETERS

Parameter	Description	Required	Type
Tool	ID of the unlock tool to be used	Yes	Digits
IMEI	Mobile phone IMEI number	Yes	Digits (15)
Email	Email of your customer, who will receive automated emails based on your Cellfservices account settings	No	String
Comments	Your comments on this order (free field)	No	String
Mobile	Mobile phone ID	If tool's Requires.Mobile is Required; can also be set if Optional	Digits
Network	ID of the mobile network on which the phone is currently locked	If tool's Requires.Network is Required; can also be set if Optional	Digits
Provider	Provider ID of the phone	If tool's Requires.Provider is Required; can also be set if Optional	Digits (13)
PIN	PIN of the phone	If tool's Requires.PIN is Required; can also be set if Optional	String (8 chars)
KBH	KBH number of the phone	If tool's Requires.KBH is Required; can also be set if Optional	String
MEP	MEP number of the phone	If tool's Requires.MEP is Required; can also be set if Optional	String MEP-XXXXX-XX X X = digits
PRD	PRD number of the phone	If tool's Requires.PRD is Required; can also be set if Optional	String PRD-XXXXX-XX X X = digits
Type	Type of the phone	If tool's Requires.Type is Required; can also be set if Optional	String
Locks	Locks requested for SonyEricsson tools. NCK, NSCK, SPK, CCK, ESL	If tool's Requires.Lockes > 0, the number of locks requested must be equal to Requires.Lockes	Comma-separated list
SMS	Mobile phone number (international format) of your customer, who will receive automated SMS based on your Cellfservices account settings	No	+xxxxxxxxxxxxxx x = digits
SN	The Serial Number of the phone to unlock.	If tool's Requires.SN is Required; can also be set if Optional	String AABCCDDDEEF
SecRO	SecRO is a field mostly used for some Alcatel tools.	If tool's Requires.SecRO is Required; can also be set if Optional	String X-----

			- = letters or digits
--	--	--	-----------------------

XML STREAM FORMAT

This is an example. Real data will be different.

```
<API>
  <Success>Your order has been submitted</Success>
  <ID>123456</ID>
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Success	Success message	If the order was successfully placed	String
ID	Order ID	If the order was successfully placed	Digits
Codes	Unlock code(s)	If the order was successfully placed, and the delivery is instantaneous (automated tools such as Nokia DCT)	String
Error	Error message	If the order could not be placed (wrong parameters, for example)	String

CancelOrder

DESCRIPTION

Cancel an order waiting for delivery.

If the order dates back to less than 15 minutes, it will be immediately canceled.

In the opposite case, the cancellation request will have to be approved by our provider.

PARAMETERS

Parameter	Description	Required	Type
ID	Order ID	Yes	Digits

XML STREAM FORMAT

This is an example. Real data can be different.

```
<API>  
  <Success>This order has been canceled</Success>  
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Success	Success message	If the order has successfully been cancelled	String
Pending	Pending message	If the order could not be cancelled now and a cancellation request has been sent.	String
Error	Error message	If the order cannot be canceled	String

RetryOrder

DESCRIPTION

Retry an order delivered and unavailable.

The order will be placed back in the waiting queue, to give it a second try.

The retry procedure can only be initiated within 5 days following the delivery date.

PARAMETERS

Parameter	Description	Required	Type
ID	Order ID	Yes	Digits

XML STREAM FORMAT

This is an example. Real data can be different.

```
<API>  
  <Success>This order has been sent for retry</Success>  
</API>
```

FIELDS DESCRIPTION

Field	Description	Visibility	Type
Success	Success message	If the order has successfully been sent for retry	String
Error	Error message	If the order cannot be retried	String

VerifyOrder

DESCRIPTION

Verify an unlock code delivered.

The verification procedure will be initiated, and the provider will be asked to verify the code. The order will be moved from status Delivered to status Waiting.

This procedure can only be launched once, within 3 days following the delivery date.

PARAMETERS

Parameter	Description	Required	Type
ID	Order ID	Yes	Digits

XML STREAM FORMAT

This is an example. Real data can be different.

```
<API>  
  <Success>The verification procedure has been launched for this order</Success>  
</API>
```

FIELD DESCRIPTIONS

Field	Description	Visibility	Type
Success	Success message	If the verification procedure has been successfully launched	String
Error	Error message	If the order cannot be verified	String

Final Notes

We hope you now have a good understanding of the Cellfservices API v3. We are at your full disposal for any question, or suggestion, about it.

Implementation Tips

Some of the streams: **GetMobiles**, **GetNetworks**, **GetTools**, **GetToolMobiles**, **GetToolNetworks** do not change very often.

We **strongly** encourage you to **implement a cache**, to avoid accessing the API each time you need this information. Failure to do this would result in a very slow service.

You can for example setup a **cron job** which would load, **once a day**, all this information, analyze it, and **store it in a database**. Then your application will only rely on this database to get information prior to placing orders.

Technical support

If you need assistance with the API, please feel free to contact our **technical support** by email.

We will do our best to quickly reply to your requests and help you integrate the API efficiently into your application.

info@cellfservices.com

Thank you for using Cellfservices.