

SOAP Gateway

Realtime SOAP Gateway for API requests

Version 1.2
January 12, 2010

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1. The SOAP-Gateway-Service

This Realtime SOAP Gateway has been developed to provide an easy way to connect existing shopping cart and domain ordering systems to a user account of our system.

The gateway consists of a SOAP server that accepts XML requests conforming to a defined syntax and converts them into API calls. All incoming SOAP requests are processed immediately and a XML response is generated and returned to the client.

The SOAP-Gateway-Service has the following connection parameters:

- IP: 93.190.235.176
- Port: 8080
- Server-/Proxy-URL: "<http://93.190.235.176:8080>"
- Namespace/URI: "urn:Api"
- available Methods: "echo" / "xcall"

The SOAP-Gateway-Service can also be called using SSL encryption:

- IP: 93.190.235.176
- Port: 8082
- Server-/Proxy-URL: "<http://93.190.235.176:8082>"
- Namespace/URI: "urn:Api"
- available Methods: "echo" / "xcall"

As we only offer two SOAP methods: ping for testing, xcall for XIRCA requests, we do not provide a public WSDL file.

1.1 SOAP Request Format

SOAP requests are "envelopes" of specially formatted XML data posted to a URL. You can find out more about SOAP at www.w3.org/TR/soap/.

The SOAP Server Endpoint URL is <http://93.190.235.176:8080>

1.2 Connecting to the API

POST and GET requests are allowed.

To query the API you just need to send a POST or GET request to <http://93.190.235.176:8080>
A valid XML frame will be returned for every query.

2. Methods

2.1 Method "echo"

Description:

To test the SOAP gateway service the function "echo" can be used. This function simply echos the text string got from the request.

Arguments:

Any argument is accepted and will be echoed to the client.

Sample Request:

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <echo xmlns="urn:Api">
      <c-gensym3 xsi:type="xsd:string">Hello world.</c-gensym3>
    </echo>
  </soap:Body>
</soap:Envelope>
```

Sample Result:

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <echoResponse xmlns="urn:Api">
      <s-gensym9 xsi:type="xsd:string">Hello world.</s-gensym9>
    </echoResponse>
  </soap:Body>
</soap:Envelope>
```

2.2 method "xcall"

Description:

To access the API by SOAP the function "xcall" can be used.

Arguments:

Both authentication parameters (like "s_login", "s_entity", ...) and API commands can be specified using a simple key/value-hash.

Example content of the key/value-hash:

Parameter	Value
s_login	<API-LOGIN>
s_pw	<API-PASSWORD>
s_entity	<API-ENTITY>
command	QueryDomainList

Sample request (XML):

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <xcall xmlns="urn:Api">
      <c-gensym3>
        <s_entity xsi:type="xsd:string">ENTITY</s_entity>
        <s_pw xsi:type="xsd:string">API-PASSWORD</s_pw>
        <command xsi:type="xsd:string">QueryDomainList</command>
        <s_login xsi:type="xsd:string">API-LOGIN</s_login>
      </c-gensym3>
    </xcall>
  </soap:Body>
</soap:Envelope>
```

Sample response (XML):

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <xcallResponse xmlns="urn:Api">
      <s-gensym27>
        <PROPERTY>
          <FIRST soapenc:arrayType="xsd:int[1]" xsi:type="soapenc:Array"><item
            xsi:type="xsd:int">0</item></FIRST>
          <TOTAL soapenc:arrayType="xsd:int[1]" xsi:type="soapenc:Array"><item
            xsi:type="xsd:int">1</item></TOTAL>
          <COUNT soapenc:arrayType="xsd:int[1]" xsi:type="soapenc:Array"><item
            xsi:type="xsd:int">1</item></COUNT>
          <DOMAIN soapenc:arrayType="xsd:string[1]" xsi:type="soapenc:Array"><item
```



```
    xsi:type="xsd:string">mydomain.tld</item></DOMAIN>
    <LAST soapenc:arrayType="xsd:int[1]" xsi:type="soapenc:Array"><item
    xsi:type="xsd:int">0</item></LAST>
    <LIMIT soapenc:arrayType="xsd:int[1]" xsi:type="soapenc:Array"><item
    xsi:type="xsd:int">1000</item></LIMIT>
  </PROPERTY>
  <DESCRIPTION xsi:type="xsd:string">Command completed successfully
  </DESCRIPTION>
  <QUEUE TIME xsi:type="xsd:int">0</QUEUE TIME>
  <CODE xsi:type="xsd:int">200</CODE>
  <RUNTIME xsi:type="xsd:float">0.04</RUNTIME>
</s-gensym27>
</xcallResponse>
</soap:Body>
</soap:Envelope>
```

3. Client-Access / Examples:

3.1 perl-Client using perl-Module SOAP::Lite

Client requests a QueryDomainList command to the API and prints a list of the domains

```
#!/usr/bin/perl -w

use Data::Dumper;
use SOAP::Lite; # +trace => 'debug';

my $soap_host = "http://93.190.235.176:8080";
my $soap_ns = "urn:Api";

my %command;
$command{"s_entity"} = "API-ENTITY";
$command{"s_login"} = "API-LOGIN";
$command{"s_pw"} = "API-PASSWORD";
$command{"command"} = "QueryDomainList";
my @xcommand;
push(@xcommand, \%command);

my $soap = SOAP::Lite
    ->readable(1)
    ->uri($soap_ns)
    ->proxy($soap_host);

my $som = $soap->xcall( @xcommand );

my $r = $som->result;
# print Dumper($som->result) . "\n";

my $domains = $r->{PROPERTY}{DOMAIN};
foreach my $domain (@$domains) {
    print "domain: $domain\n";
}
```

3.2 PHP-Client using PHP5 (or later)

Client requests a QueryDomainList command to the API and prints a list of the domains

```
<?php
$client = new SoapClient(NULL,
    array(
        "location" => "http://93.190.235.176:8080",
        "uri"       => "urn:Api",
        "style"     => SOAP_RPC,
        "use"       => SOAP_ENCODED,
        "trace"    => 1
    ));

$params = array(array("s_entity" => "API-ENTITY", "s_login" => "API-LOGIN", "s_pw" =>
"API-PASSWORD", "command" => "QueryDomainList"));

$result = $client->__call(
    "xcall",
    $params,
    array("uri" => "urn:Api", "soapaction" => "urn:Api#xcall")
);

echo "<pre>"; print_r($result); echo "</pre>";

?>
```

4. ChangeLog

Date	Old / new version	Description of changes
2007-12-24	1.0 / 1.1	Added description for connecting to SOAP gateway using SSL encryption
2009-08-20	1.1 / 1.2	Removed old IP addresses and replaced them by new ones