



## **Advanced Services – WAP PPG Service Guide**

## **HSL WAP PPG Service Guide**

The HSL WAP Push Proxy Gateway (PPG) service allows WAP Push messages to be sent from an application to suitable mobile devices.

Wireless Application Protocol (WAP) is used to define a specification for developing applications that operate over wireless communications networks. WAP Push specifications identify means of pushing content to mobile devices via the WAP architecture. This application level service is specified in XML, where Service Indications (SI) and Service Loading (SL) messages are then tokenized into WBXML, or Binary XML, and sent over-the-air to a mobile number where they are processed by the user's handset.

Information and documents on how to encode WAP Push messages may be found at the Open Mobile Alliance website (<http://www.openmobilealliance.org/>). The WAP Push specifications can be found at:

<http://www.openmobilealliance.org/tech/affiliates/wap/wapindex.html>

The specification documents of particular relevance within the "Push" section are listed below:

- Push Architectural Overview
- Push Access Protocol Specification
- Push Proxy Gateway Service Specification
- WAP Service Indication Specification
- WAP Service Loading Specification

In order to use HSL's WAP PPG service the user must POST a MIME encoded document to the service at a URL of the following format:

```
http://<ppg_server>:<ppg_port>/ppg?username=<client_username>&password=<client_password>
```

The parameters for the above URL will be provided as part of your account configuration details.

The MIME encoded document should include two parts, one of which is a PAP (Push Access Protocol) XML document and the other an SI (Service Indicator) or SL (Service Load) XML document.



## Example

An example of a push control document (PAP) which provides the Push Proxy Gateway (PPG) instructions on how to push the message is provided below.

```
<?xml version="1.0"?>
<!DOCTYPE pap PUBLIC "-//WAPFORUM//DTD PAP//EN"
    "http://www.wapforum.org/DTD/pap_1.0.dtd">
<pap>
  <push-message push-id="c2d975906e5@haysystems.com"
    deliver-before-timestamp="2005-01-23T12:56:55Z"
    deliver-after-timestamp="2003-01-04T12:56:55Z"
    progress-notes-requested="false">
    <address address-value="WAPPUSH=+44712345678/TYPE=PLMN@ppg.carrier.com" />
    <quality-of-service
      bearer="SMS"
      bearer-required="true"
      delivery-method="unconfirmed"
      network="GSM"
      network-required="true"
      priority="low" />
    </push-message>
  </pap>
```

The following text is an example of a Service Indication (SI), a type of push content. When this SI is received the phone will display the text "BBC News: Read the latest headlines" and if the user accepts, the phone will retrieve the content located at the URL <http://news.bbc.co.uk>.

```
<?xml version="1.0"?>
  <!DOCTYPE si PUBLIC "-//WAPFORUM//DTD SI 1.0//EN"
    "http://www.wapforum.org/DTD/si.dtd">
<si>
  <indication href="http://news.bbc.co.uk"
    si-id="cf4e6e2fcbdee3395416df9f8f88347a"
    action="signal-high"
    created="2001-06-25T12:45:28Z"
    si-expires="2004-06-30T00:00:00Z">
    BBC News: Read the latest headlines
  </indication>
</si>
```