



Web Signals for BlackBerry Smartphones version 1.0

Technical Overview and Reference Guide

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Last modified: 16 April 2008

Part number: 12861101

At the time of publication, this documentation is based on Web Signals for BlackBerry Smartphones version 1.0.

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Research In Motion Limited
295 Phillip Street
Waterloo, ON N2L 3W8
Canada

Research In Motion UK Limited
200 Bath Road
Slough, Berkshire SL1 3XE
United Kingdom

Published in 2008

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Web signals for BlackBerry smartphones

- Delivering web signals to BlackBerry device users
- Content requirements for web signals
- Process flow: Registering a web signal with the BlackBerry Infrastructure
- Process flow: Subscribing to a web signal
- Process flow: Pushing content to subscribed users
- Web signal constraints
- Handling changes in user hardware

Delivering web signals to BlackBerry device users

Web signals enable content providers to push content to the BlackBerry® smartphones using the BlackBerry® Internet Service and BlackBerry Internet Service Browser.

By creating web signals, content providers (such as online portals, banks, and information and entertainment organizations) can proactively send content to subscribed users when data changes, instead of waiting for users to access data. For example, an auction house could send updates of upcoming auctions to the user. Each event is a new web page or resource.

To push content to users, content providers must first register their web signals with Research In Motion. Users then subscribe to receive web signals on their BlackBerry devices.

For content providers, creating content for web signals can be as simple or complex as they choose. At its simplest, it requires a subscription web page, two icons used to identify the web signal on the BlackBerry user's Home screen (the standard icon, displayed when no new content is available, and the other notification icon, displayed when new content is available), and a web page containing the updated content for subscribed users to view.

When content providers submit a request to push content to users, the BlackBerry® Infrastructure queues the request, then delivers the URLs of the icons and the new content to the specified users' BlackBerry devices. The BlackBerry® Browser retrieves the icons without user intervention, and the notification icon replaces the standard icon on the Home screen. When the user clicks the notification icon, the BlackBerry Browser displays the content found at the URL specified in the push request. After the user clicks the notification icon, the notification icon is replaced by the standard icon on the Home screen.

Pushed content can be in any format that is supported by the BlackBerry Browser. For example, the content might be stock prices, or weather forecasts, or auction item prices. The content can be static or dynamic.

Content requirements for web signals

The content provider must create the following content for web signals:

- The user subscription site gathers information about the user, confirms the subscription to the user, and sends the PUID to the BlackBerry® Infrastructure.
- Two icons that identify the web signal on the BlackBerry smartphone Home screen. The standard icon is displayed when no new content is available, and the notification icon is displayed when new content is available.

The icons should be PNG images, approximately 36x36 pixels in size. The exact size of the icons depends on the BlackBerry smartphone screen size and the theme the user has chosen to display; the images are resized as appropriate by the BlackBerry Infrastructure.

- The content for subscribed users. This content can be static or dynamic, and uses HTTP instead of HTTPS so that the service can append the device PIN number. User login web pages are exempt from this requirement.

Process flow: Registering a web signal with the BlackBerry Infrastructure

1. The content provider contacts Research In Motion to register a web signal with the BlackBerry® Infrastructure.
2. Research In Motion and the content provider consent to a legal agreement which outlines the terms and conditions to which both parties will adhere.
3. The Research In Motion assigns an SID and a description to the content provider's web signal.
Content providers with more than one web signal must register each service separately.

Information required to register a web signal with the BlackBerry Infrastructure

A content provider can register more than one web signal. Each web signal record requires the following information:

Item	Description
SID	This item is the service identifier. This value is case-insensitive and can have a maximum size of 20 bytes. For localization purposes, restrict the characters to A to z and 0 to 9, plus the symbols "!" and "-". Spaces are not permitted.
content provider ID or name	This item maps an SID to a content provider. This value is case-insensitive and can have a maximum size of 20 bytes. For localization purposes, restrict the characters to A to z and 0 to 9, plus the symbols "!", "-", "@", ".", and "_". Spaces are permitted; leading and trailing spaces are trimmed.
SID description	This item describes the web signal, and is assigned by a BlackBerry® Infrastructure administrator. This value can have a maximum length of 256 bytes, and is case-insensitive. For localization purposes, restrict the characters to A to z and 0 to 9, plus the symbols "!", "-", "@", ".", and "_". Spaces are permitted; leading and trailing spaces are trimmed.

Item	Description
SID password	This item is required for push authentication. The password is chosen by either the BlackBerry Infrastructure administrator or by the content provider. The password must be between 8 and 24 characters in length, and can consist of any printable characters in the 7-bit ASCII set with the exception of single quotation marks ('), double quotation marks ("), backslash (\), and spaces. Leading or trailing spaces are trimmed. For security reasons, the password cannot contain the word "password" or the SID.
quota per day	This item specifies the maximum number of pushes allowed per day, assigned by the BlackBerry Infrastructure administrator.
quota per hour	This item specifies the maximum number of pushes allowed per hour, assigned by the BlackBerry Infrastructure administrator.
priority	This item specifies the priority of the push. Currently, only bulk priority is supported. With bulk priority, the BlackBerry Infrastructure attempts to push content one time only; it makes no additional attempts to push the content, and delivery is not guaranteed.
success URL	This item specifies the URL to which users will be redirected upon successful registration.
failure URL	This item specifies the URL for content that is shown to users on an unsuccessful registration.
expiration date	This item specifies the expiration date for the SID.

Process flow: Subscribing to a web signal

After the web signal is registered, users can subscribe to the service.

1. Content providers create and host a subscription web page, which gathers information about the user.
2. The user browses to the content provider's subscription web page and submits the subscription request. The content provider assigns the user a PUID, a unique username, which is used to uniquely identify the subscribed user.
3. The content provider emails a link to a registration web page that is hosted by the BlackBerry® Infrastructure. The link must contain as parameters the PUID of the user and web signal SID.
4. The user opens the link from their BlackBerry smartphone.
5. As part of the registration process, the user is required to agree to the terms of a license agreement, which is presented in one of English, French, Italian, German, or Spanish, as determined by the preferred language of the device. If the preferred language is not one of those five, the agreement is presented in English.
6. If the user successfully registers, the BlackBerry Infrastructure redirects the user to the success URL (provided by the content provider when the web signal was registered), and notifies the content provider that the user is successfully subscribed to the web signal.

If the user does not successfully register, the BlackBerry Infrastructure redirects the user to the failure URL (provided by the content provider when the web signal was registered), and notifies the content provider that the user did not successfully subscribe to the web signal.

Process flow: Pushing content to subscribed users

1. The content provider makes a push request. The request is an HTTP POST request to the BlackBerry® Infrastructure that contains the following parameters:
 - The web signal SID
 - The password for the SID
 - The length of time (between 2 and 24 hours) for which the push is valid
 - The title of the web signal to be displayed on the BlackBerry smartphone's Home screen
 - the absolute URL for the standard icon
 - the absolute URL for the notification icon
 - the absolute URL for the content
 - the PUIDs of the subscribed users in a comma-separated list
2. The BlackBerry Infrastructure receives the request and checks to see if the content provider is within their push limits to ensure that the request is allowed. If the content provider has exceeded their push limits, the BlackBerry Infrastructure rejects the request, and returns the appropriate error code to the content provider. If the content provider has not exceeded its push limits, and the request contains all the required information, the BlackBerry Infrastructure accepts the request.
3. After the BlackBerry Infrastructure accepts the request, it validates the list of provided PUIDs, then queues the request and provides a response to the content provider with a JobID.

While the push request is still in the queue, the content provider can send a request to cancel the push request with the provided JobID.
4. The BlackBerry Infrastructure pushes the URLs to the devices associated with the PUIDs. The BlackBerry® Browser on the device retrieves the icons without user intervention. Because there is new content, the Home screen displays the notification icon.
5. The user clicks the notification icon.
6. The BlackBerry Browser opens and displays the content from the URL included in the push request.
7. The user views the new content. The standard icon replaces the notification icon on the Home screen. The standard icon remains on the Home screen until the content provider makes a new push request.

Web signal constraints

When content providers design their web signal, they must consider the following constraints:

- **Push limitations:** There are limits to the number of push requests a content provider can perform as outlined in the agreement between the content provider and Research In Motion. Push requests that exceed the daily quota outlined in the agreement are rejected. Push requests that exceed the hourly limit but are within the daily limit are delayed before being pushed.

- URL limitations: There are limits to the length of the push request URL. GET and POST requests from the content provider can have a maximum length of 8 KB. Because a push request contains a list of the PUIDs of users to whom the content is to be pushed, a push request can get quite long. Therefore, a content provider might need to make multiple push requests to push the content to all of the target PUIDs.
- BlackBerry Browser limitations: Web signals are associated with the BlackBerry® Internet Service exclusively. As a result, web signals are only available to those BlackBerry users who are BlackBerry Internet Service subscribers and who have the BlackBerry Internet Service Browser provisioned on their BlackBerry smartphone. Content providers should clearly state this prerequisite to all BlackBerry users interested in subscribing to their web signal.

Handling changes in user hardware

The BlackBerry® Infrastructure associates the content providers' web signal with the PIN of the subscribed user's BlackBerry smartphone. If a user changes hardware, either by upgrading their BlackBerry device or changing SIM cards, the BlackBerry Infrastructure makes a best effort attempt to migrate the web signal to the new hardware.

The BlackBerry Infrastructure handles changes in user hardware in the following ways:

- Changing devices: If a user with web signal subscriptions changes their BlackBerry device, the BlackBerry® Provisioning System notifies the BlackBerry Infrastructure of the change and provides the PINs for the old and the new devices. Web signal subscriptions that are associated with the old BlackBerry device are updated to be associated with the new BlackBerry device.
- Changing SIM cards: Changing SIM cards on a BlackBerry device typically does not affect web signal subscriptions, provided the new SIM card is from the same region as the original. However, if the user changes to a SIM card from a different region, a new service book is provisioned to the device, causing the network routing to change. As a result, the user's BlackBerry device is disassociated from the web signals to which the user is subscribed. The user must resubscribe to the web signal(s).

The original web signal subscriptions resume when the original SIM card is inserted, or a SIM card from the same region as the original is inserted.

Web signal URLs

URL syntax
URL syntax
URLs for the content provider
URLs for users

URL syntax

The URL parameters use the standard syntax defined in RFC 1738 for the query. The order of parameters is unimportant in a query, but in case of multiple errors, only one error code is returned (the first parsed; parameters are given in that order).

Web signal domains

To support the creation of web signals, the BlackBerry Infrastructure® hosts two domains:

- Evaluation domain: When setting up and texting a web signal, content providers should use the evaluation domain:
`push.eval.blackberry.com`
- Production domain: In production, web signals is a regionalized service. Content providers must ensure that they direct all requests to the URL that corresponds to their region. The production domain is as follows:
 - For content providers:
`push.region.blackberry.com`
 - For links sent to users:
`push.region.mobile.blackberry.com`

Where *region* is one of:

- na (North America, Latin America, South America, Africa)
- eu (Europe)
- ap (Asia-Pacific)

Content providers must ensure that they are working in the correct domain and must provide.

URLs for the content provider

Three web signal URLs are required by content providers:

- one to submit a request to push a web signal to users
- one to submit a request for the subscription status of users
- one to unsubscribe users

Request a web signal push

To submit a request to push a web signal to users, send the request to the following URL:

```
https://eval.or.production.domain/mss/PM_submitJob?
    sid=sidvalue&
    pass=passvalue&
    validfor=timeout&
    title=titlevalue&
    readiconURL=readurlvalue&
    unreadiconURL=unreadurlvalue&
    contentURL=contenturlvalue&
    puids=puidvalue[,puidvalue,...]|ALL_USERS
```

Where *eval.or.production.domain* is either the evaluation domain or the production domain for the appropriate region. See “Web signal domains” on page 13 for more information.

Parameters

Parameter	Description
sid	This parameter specifies the unique identifier of the web signal for which the content provider wants to submit a push request.
pass	This parameter specifies the content provider’s password for this SID.
validfor	This parameter specifies the time, in seconds, that this request is valid, as measured from the time of the push request submission. The minimum value is 7200 (2 hours), and the maximum is 86400 (24 hours).
title	This parameter specifies the title, in English, that is displayed on the user’s BlackBerry® smartphone when the icon is highlighted. The maximum length is 256 bytes; valid characters include A-z (case insensitive) and 0-9, plus the symbols “!”, “-”, “@”, “.”, and “_”. Spaces are permitted; leading and trailing spaces are trimmed.
readiconURL	This parameter specifies the absolute URL to the PNG image that is displayed on the user’s BlackBerry device after the notification icon is clicked. The URL can have a maximum length of 2048 bytes.
unreadiconURL	This parameter specifies the absolute URL to the PNG image that is displayed on the user’s BlackBerry device before the notification icon has been clicked. The URL can have a maximum length of 2048 bytes.
contentURL	This parameter specifies the absolute URL to content, which is displayed when the icon is clicked. The URL can have a maximum length of 2048 bytes.
puids	This parameters specifies a comma-separated list of the users who will receive the pushed content, represented by their unique PUID values; alternatively, you can provide a value of ALL_USERS to indicate that all currently-subscribed users should receive the pushed content. Each PUID can have a maximum of 40 characters. Valid characters include A-z (case insensitive) and 0-9, plus the symbols “!”, “-”, “@”, “.”, and “_”. Spaces are not permitted.

Response

- If the push request is successful, the system responds with the following parameter:

Response parameter	Description
jobID	This parameter uniquely identifies the job, assigned if the request to push content to one or more subscribed users has been successfully submitted.

- If the push request is unsuccessful, the system responds with the following parameter:

Response parameter	Description
rc	<p>This parameter specifies the error code returned by the system in the event of an unsuccessful push request. It can have one of the following values:</p> <ul style="list-style-type: none"> • 0500: No SID has been provided. • 0501: No password has been provided. • 0502: No PUID has been provided. • 0503: Authentication has failed. • 0504: No title has been provided. • 0505: No readicon URL has been provided. • 0506: No unreadicon URL has been provided. • 0507: No content URL has been provided. • 0508: No validfor parameter has been provided • 0509: The provided title is not valid. • 0510: The URL provided for the read icon is not a valid URL. • 0511: The URL provided for the unread icon is not a valid URL. • 0512: The URL provided for the content link not a valid URL • 0513: The value provided for the validfor parameter is not valid. • 0514: The value provided for the validfor parameter is less than the minimum value or greater than the maximum value. • 0515: The provided SID has expired or is not active. • 0516: The provided SID has exceeded its daily limit of push requests. • 1000: The system is currently unavailable.

Request the user subscription status

To submit a request for the subscription status of subscribed users, send the request to the following URL:

```
https://eval.or.production.domain/mss/PM_sidUserStatus?  
    sid=sidvalue&  
    pass=passvalue&  
    puids=puidvalue[,puidvalue,...]|ALL_USERS
```

Where *eval.or.production.domain* is either the evaluation domain or the production domain for the appropriate region. See "Web signal domains" on page 13 for more information.

Parameters

Parameter	Description
<i>sid</i>	This parameter specifies the unique identifier of the web signal for which the content provider wants to request the subscription status of subscribed users.
<i>pass</i>	This parameter specifies the content provider's password for this SID.
<i>puids</i>	This parameters specifies a comma-separated list of the users whose status you want to query, represented by their unique PUID values; alternatively, you can provide a value of ALL_USERS to query the status of all currently-subscribed users. Each PUID can have a maximum of 40 characters. Valid characters include A-z (case insensitive) and 0-9, plus the symbols "!", "-", "@", ".", and "_". Spaces are not permitted.

Response

- If the request for the user subscription status is successful, the system returns the status of each of the PUIDs in the request. Status is returned in the following format:

```
puid1=status[,puid2=status,puid3=status...]
```

Response parameter	Description
<i>puid</i>	This parameter specifies the unique identifier assigned to each subscribed user.
<i>status</i>	This parameter specifies the status of the subscribed user with the given PUID. The <i>status</i> parameter may have one of the following values: <ul style="list-style-type: none">• A: The user is subscribed to the web signal.• C: The user has been unsubscribed from the web signal by the content provider.• S: The user has unsubscribed from the web signal.• I: The provided PUID is invalid or does not exist.

- If the request for the user subscription status is unsuccessful, the system responds with the following parameter:

Response parameter	Description
rc	<p>This parameter specifies the error code returned by the system in the event of an unsuccessful request for the status of subscribed users. This parameter will have one of the following values:</p> <ul style="list-style-type: none"> • 0300: No SID has been provided. • 0301: No password has been provided. • 0302: No PUID has been provided. • 0303: Authentication has failed. • 0304: No subscribed users exist for the SID provided. • 0305: The provided SID has expired or is not active. • 1000: The system is currently unavailable.

Request to unsubscribe currently subscribed users

To remove users from the list of subscribed users for a web signal, send the request to the following URL:

```
https://eval.or.production.domain/mss/PM_puidDereg?
    sid=sidvalue&
    pass=passvalue&
    puids=puid
```

Where *eval.or.production.domain* is either the evaluation domain or the production domain for the appropriate region. See "Web signal domains" on page 13 for more information.



Note: After a user has been deregistered by the content provider, that subscriber's PUID may not be used again. In order to re-register a user, you must assign a new PUID, or you will receive return code 0103 (PUID already registered).

Parameters

Parameter	Description
sid	This parameter specifies the unique identifier of the web signal for which the content provider wants to unsubscribe currently subscribed users.
pass	This parameter specifies the content provider's password for this SID.
puids	<p>This parameters specifies a comma-separated list of the users who you wish to unsubscribe, represented by their unique PUID values; alternatively, you can provide a value of ALL_USERS to unsubscribe all currently-subscribed users.</p> <p>Each PUID can have a maximum of 40 characters. Valid characters include A-z (case insensitive) and 0-9, plus the symbols "!", "-", "@", ".", and "_". Spaces are not permitted.</p>

Response

- If the request to unsubscribe users is successful, the system responds with the following parameter:

Response parameter	Description
jobID	This parameter uniquely identifies the job, assigned if the request to unsubscribe one or more users from the web signal has been successfully submitted.

- If the request to unsubscribe users is unsuccessful, the system responds with the following parameter:

Response parameter	Description
rc	<p>This parameter specifies the error code returned by the system in the event of an unsuccessful request to unsubscribe users. This parameter will have one of the following values:</p> <ul style="list-style-type: none">• 0400: No SID has been provided.• 0401: No password has been provided.• 0402: No PUID has been provided.• 0403: Authentication has failed.• 0404: No subscribed users exist with the provided PUIDs, no subscribed users are available to be unsubscribed.• 0405: The provided SID has expired or is not active.• 1000: The system is currently unavailable.

URLs for users

Two web signal URLs are required by users:

- one to register with the BlackBerry® Infrastructure and complete the subscription process
- one to access a list of web signals to which they are subscribed, and from which they can unsubscribe.

Content providers can make these URLs available to users in their content. Content providers must ensure that they provide URLs that correspond to their region.

User registration

The user registration URL allows a user to complete the process of subscribing to a content provider's web signal. The registration process allows the BlackBerry® Infrastructure to acquire the user's BlackBerry smartphone PIN, so that the BlackBerry Infrastructure can direct content to the BlackBerry smartphone.

Content providers must email the URL to the user, and the user must access the link from their BlackBerry device.

```
http://eval.or.production.domain/mss/PM_subReg?  
    puid=puidvalue&  
    sid=sidvalue
```

Where *eval.or.production.domain* is either the evaluation domain or the production domain for the appropriate region. See "Web signal domains" on page 13 for more information.

If the SID is valid, the user is required to accept the terms of the license agreement before being registered as a subscribed user to the web signal.

Parameters

Parameter	Description
puid	This parameter uniquely identifies the user, as assigned to the user by the content provider. Each PUID can have a maximum of 40 characters. Valid characters include A-z (case insensitive) and 0-9, plus the symbols "!", "-", "@", ".", and "_". Spaces are not permitted.
sid	This parameter is the SID of the web signal to which the user is trying to subscribe.

Response

- If the subscription is unsuccessful, the user is redirected to the following URL:
`http://host.contentprovider.domain/successURL?puid=puidvalue`

Where `host.contentprovider.domain/successURL` is the predefined URL for a successful attempt to subscribe to this web signal.

A successful subscription attempt also returns the following parameters:

Response parameter	Description
puid	This parameter is the unique identifier that was assigned to the user by the content provider, and that was provided in the subscription request.

- If the subscription is unsuccessful, the user is redirected to the following URL:
`http://host.contentprovider.domain/failURL?puid=puidvalue&rc=rcvalue`

Where `host.contentprovider.domain/failURL` is the predefined URL for an unsuccessful attempt to subscribe to this web signal.

The failed subscription attempt also returns the following parameters:

Response parameter	Description
puid	This parameter is the unique identifier that was assigned to the user by the content provider, and that was provided in the subscription request.
rc	This parameter specifies the error code returned by the system in the event of an unsuccessful subscription attempt. This parameter has one of the following values: <ul style="list-style-type: none"> 0100: No SID has been provided. 0101: The legal agreement was declined. 0102: No PUID has been provided. 0103: The PUID provided has already been registered. 0104: The provided SID has expired or is not active. 0105: The provided PUID is not valid. 1000: The system is currently unavailable.

Unsubscribing from a web signal

Users can access the following URL to view a list of web signal to which they are currently subscribed. A user can select a web signal from the list to unsubscribe from that service.

`http://eval.or.production.domain/mss/PM_subList`



Note: Content providers may choose to host an unsubscribe page. In this case, users would unsubscribe with the content provider, and the content provider would in turn submit a request to the BlackBerry® Infrastructure to unsubscribe the user. See "Request to unsubscribe currently subscribed users" on page 17 for more information.

Sample web signal

Scenario: A wireless banking web signal

Example: Registering a web signal with the BlackBerry Infrastructure

Example: Registering a web signal with the BlackBerry Infrastructure

Example: Subscribing to the bank's web signal

Example: Sending a push request

Scenario: A wireless banking web signal

A bank provides a wireless banking solution to customers for use on their BlackBerry® smartphones. Users who subscribe to the web signal are notified by a notification icon on their Home screen when their account information changes.

This web signal allows the bank to create a wireless banking experience for the user and gain brand exposure by placing the bank logo on the customer's BlackBerry smartphone.

1. The bank registers the web signal with the BlackBerry® Infrastructure.
2. The bank creates the necessary content, including the subscription web site, standard icon and notification icon images, as well as any additional scripts required. Content is optimized for wireless devices.
3. A customer subscribes on the bank's web site to the web signal. The customer automatically receives the bank's logo as an icon on the Home screen of their BlackBerry smartphone.
4. When the customer clicks the icon, the BlackBerry® Browser displays the bank's online banking web site.
5. The bank provides two icons so that the icon displays a flag (or some other notice) when the customer's account information changes. The icon itself does not change; a new icon replaces the previous icon.

Parts of the wireless banking web signal

The bank's web signal has the following parts:

- bank's web site (the content)
- customer subscription site
- BlackBerry® smartphone, browsing the Internet using the BlackBerry® Internet Service Browsing
- BlackBerry® Infrastructure

Example: Registering a web signal with the BlackBerry Infrastructure

1. To register the web signal with the BlackBerry® Infrastructure, the bank provides the following information:

Item	Value
content provider ID or name	bank name
expiration date	agreed upon with a BlackBerry Infrastructure administrator
quota per day	500
quota per hour	60
SID password	assigned by the bank; the size is between 8-24 characters and the characters must be in the 7-bit US ASCII character set; spaces are not allowed
success URL	http://www.samplebank.notarealdomain/example/successmessage.php
failure URL	http://www.samplebank.notarealdomain/example/errormessage.php

2. If the web signal is successfully registered, the BlackBerry Infrastructure returns the following information to the bank:

Item	Value
SID	the unique identifier of the web signal
SID description	assigned by a BlackBerry Infrastructure administrator

3. The bank submits a push request to the BlackBerry Infrastructure.

Example: Subscribing to the bank's web signal

1. The user subscribes to the bank's web signal and provides the email address for the a BlackBerry smartphone to the bank's user subscription site.
2. The bank emails a message to the user's BlackBerry® smartphone. The message contains the URL for the user registration web page hosted by the BlackBerry® Infrastructure. The URL includes the following parameters:

Parameter	Value
SID	the unique identifier of the web signal to which the user wants to subscribe.
PUID	assigned by the bank; embedded in the message to identify user on subsequent transactions

3. When the user clicks the link in the email, the subscription process is completed and the user is registered with the BlackBerry Infrastructure for the bank's web signal.
4. The bank receives from the BlackBerry Infrastructure the PUID of the subscribed user to indicate that the user has successfully subscribed to the web signal.

Example: Sending a push request

- > The bank submits a request to push information to one or more subscribed users by sending a request to the BlackBerry® Infrastructure, using the following URL:

```
https://push.na.blackberry.com/mss/PM_submitJob?
  sid=129&
  pass=Gdaymate?&
  validfor=7200&
  title=SampleBankPush&
  readiconURL=http://www.samplebank.notarealdomain/standard.png&
  unreadiconURL=http://www.samplebank.notarealdomain/notify.png&
  contentURL=http://www.samplebank.notarealdomain/example.php&
  puids=ALL_USERS
```

URL part	Description
sid=129	SID as assigned by the BlackBerry Infrastructure and given to the bank
pass=Gdaymate?	password contents, assigned by the bank
validfor=7200	number of seconds this request is valid, assigned by the bank
title=Basic	title of push request, generated by the bank
readiconURL=http://www.samplebank.notarealdomain/standard.png	URL of icon that indicates no new content, generated by the bank
unreadiconURL=http://www.samplebank.notarealdomain/notify.png	URL of icon that indicates new content, generated by the bank
contentURL=http://www.samplebank.notarealdomain/example.php	URL of content, generated dynamically based on the value of the puids
puids=ALL_USERS	all users receive the current URL; the first sent contains ALL_USERS instead of the PUID.

Glossary

A

ASCII

American Standard Code for Information Interchange

C

CPID

Content Provider Identifier

J

JobID

Job Identifier. The Job Identifier identifies a push request.

P

PUID

Push User Identifier. The push user identifier identifies a user and maps one-to-one with PIN; created by the content provider and assigned to a user.

S

SID

Service Identifier. The service identifier identifies a web signal; a new registration for the service requires a new SID.



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Published in Canada.