



# Mozilla Exporter API 1.0

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## Integration Guide



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## Document change log

Date	Version	Change detail
20 September 2012	1.0.0	Created



## Versioning

### Mozilla Exporter Web Service

Version 1.0.0

<https://webservices.bango.com/mozillaexporter/?WSDL>



## Introduction

The Mozilla Exporter service exposes methods for the creation and configuration of Packages and Bango Numbers within the Bango system to allow synchronisation between Mozilla Developer accounts and Bango for use in billing.

This service is a customisation of the existing Package and Number Management service, which simplifies interfaces for common methods, and removes redundant methods used for carrier configuration.

For more information on integrating with the service and utilising the functionality to manage packages and numbers, see the sample process on page 9.



## Web Services API

The Web Services API is a secure server-to-server API allowing access to the Bango system.

### Security

The Web Services API is protected to ensure that only authorized clients use it. There are three primary levels of security:

- API username / password and third-party account authentication
- Secure Sockets Layer (SSL) data transport
- *Optional* IP address restriction

A failure at any one of these security levels denies access to the Web Services API.

The Web Services API allows your server to send requests to the Bango server. The Bango server will only accept requests from authorized users.

### Available services

There is currently 1 management service available for creation and management of Packages and Bango Numbers within the Bango system.

### WSDL location

The WSDL for this service is available at the following location:

Mozilla Exporter

**<https://webservices.bango.com/mozillaexporter/?WSDL>**

### Requesting Web Services access

Before you can use the Web Services API, you need to first request access credentials from Customer Services via [support@bango.com](mailto:support@bango.com).

Access to the API is dependent upon package level. If you are unsure whether the API is available to you please contact Customer Services.





## Sample Package and Number Management Process

### Create a Package for a new account

Using the CreatePackage method, you should pass through all relevant details, including address details, VAT number (if applicable) and PayPal email account details (if applicable) in this call.

Fields such as Company Name, Vendor Name, Phone and Homepage URL are used for important financial and invoicing details, as well as for carrier specific configuration used in billing transactions.

Passing a PayPal email address will associate the vendor's PayPal account details with this package. This will enable out-payment of earnings via PayPal for this vendor.

To enable payments direct to a vendor bank account, you should also call the CreateBankDetails method, passing in the associated banking details such as account number, IBAN, code (sort code, swift code, etc.)

Automatic out-payments will be enabled automatically once a package is created, so there is no need to call the AcceptSBIAgreement method on creation. However, as this agreement has an expiry date, it should be noted that a subsequent call to this method will be required on SBI expiry.

### Create a Base Bango Number for a product

Using the CreateBangoNumber, you can generate a unique Bango Number for a product. Along with this call, you can pass a category id which will map to a product type / genre describing the content being sold. You should also pass an application size value, describing the size of the application in Kilobytes (KB).

The fields name, category id and application size are used for configuration both within the Bango system as well as for carrier specific configuration used in billing transactions.

### Configuring a Bango Number for billing

Once created, call the relevant MakePremiumxxx method to enable billing on this Bango Number and to set the initial price point and access details for this number. For per access billing, use the MakePremiumPerAccess method, for multi-access billing, use the MakePremiumMultiAccess method, for timed access billing, use and MakePremiumTimed method, and for managed subscription billing, use the MakePremiumRepeat method.

Subsequently, call the CreatePricePoint method to add new price points for each currency which is supported within the Bango system.

Alternatively, in conjunction with the Direct Billing API and/or Billing Configuration API, as you are able to override both the price and currency on a DoPayment request, you can maintain management of individual price points and supported currencies. In this instance, you are only required to call the relevant MakePremiumxxx method to set a default price, but you will not be required to set individual price points using CreatePricePoint.

Once you have created all relevant price points, call the UpdateRating method for each supported ratingScheme to ensure the content is suitably rated. Numbers created using the CreateBangoNumber will, by default, be rated as GLOBAL R and USA R within the Bango system. You will only need to call this method to change the rating to Universal (Global) and General (USA) as applicable.

## Methods and Interfaces - Package Management

Method:

### CreatePackage

Description: Creates a new package within the Bango system

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
adminEmailAddress	String [100]	✓	The email address of the admin contact to assign to the package.
supportEmailAddress	String [100]	✓	The email address of the support contact to assign to the package.
financeEmailAddress	String [100]	✓	The email address of the finance contact to assign to the package.
paypalEmailAddress	String [100]	✗	The PayPal registered email address to assign to the package.
vendorName	String [50]	✓	The name of the vendor.
companyName	String [50]	✓	The registered company or individual name of the vendor.
address1	String [50]	✓	The main address line
address2	String [50]	✗	The secondary address line
addressCity	String [50]	✗	The city field of the address
addressState	String [50]	✗	The state field of the address
addressZipCode	String [10]	✓	The zip code of the address
addressPhone	String [20]	✗	The telephone contact number of the vendor
addressFax	String [20]	✗	The fax contact number of the vendor
vatNumber	String [20]	✗	The VAT number
countryIso	String [3]	✓	A three letter ISO code specifying the country the package is being created for. Refer to the appendix for supported country ISO codes.
currencyIso	String [3]	✓	A three letter ISO code specifying the currency out-payments from this package should be made in. Bango support three possible currencies for package out-payment at present - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro
homePageURL	String [255]	✗	The homepage URL of the vendor
eventNotificationURL	String [255]	✗	A URL to send event notification packets to when a package uses Subscription payment methods. This value is optional. Where supplied, the URL must be fully qualified, and start with http(s)

Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
	packageld	Integer	The generated unique package identifier for the package created for this vendor
	adminPersonId	Integer	The generated unique person identifier for the admin contact email address within the Bango system
	adminPersonPassword	String [10]	The randomly generated password created when a new vendor account is created (where the registered email address has not been used by Bango previously)
	supportPersonId	Integer	The generated unique person identifier for the support contact email address within the Bango system
	supportPersonPassword	String [10]	The randomly generated password created when a new vendor account is created (where the registered email address has not been used by Bango previously)
	financePersonId	Integer	The generated unique person identifier for the finance contact email address within the Bango system
	financePersonPassword	String [10]	The randomly generated password created when a new vendor account is created (where the registered email address has not been used by Bango previously)
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_EMAIL		Invalid email address construct
	INVALID_COUNTRYISO		The specified country ISO code is invalid
	INVALID_CURRENCYISO		The specified currency ISO code is invalid
	INVALID_URL		Invalid URL construct
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

If, in the process of creating an account, an email address supplied is already registered on the Bango System, then no new user account will be created. In this instance, the personPassword return value(s) will be empty.



The vendor name value is used for setup and configuration options, including settings used in DirectBilling when performing payments.

The company name value is used for financial and billing details, and, once set, cannot be programmatically changed.

If an event notification URL is not specified, and Subscriptions are subsequently configured, you will not receive notification data on subscription activity (renewals, cancellations, etc.). You must use the Event Notification methods detailed below to manage this value.

Method:

## GetPackage

Description: Retrieve details of an existing package from the Bango system

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
packageId	Integer	✓	The unique identifier for the package on the Bango system

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status
adminEmailAddress	String [100]	The email address of the admin contact assigned to the package.
supportEmailAddress	String [100]	The email address of the support contact assigned to the package.
financeEmailAddress	String [100]	The email address of the finance contact assigned to the package.
paypalEmailAddress	String [100]	The PayPal registered email address for this package
vendorName	String [50]	The name of the vendor.
companyName	String [50]	The registered company or individual name of the vendor.
address1	String [50]	The main address line
address2	String [50]	The secondary address line
addressCity	String [50]	The city field of the address
addressState	String [50]	The state field of the address
addressZipCode	String [10]	The zip code of the address
addressPhone	String [20]	The telephone contact number of the vendor
addressFax	String [20]	The fax contact number of the vendor
vatNumber	String [20]	The VAT number
countryIso	String [3]	A three letter ISO code specifying the default country for this package. Refer to the appendix for supported country ISO codes.
currencyIso	String [3]	A three letter ISO code specifying the currency out-payments from this package should be made in. Bango support three possible currencies for package out-payment at present - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro
homePageURL	String [255]	The homepage URL of the vendor
eventNotificationEnabled	Boolean	Whether Event Notification has been enabled for this package
eventNotificationURL	String [255]	The configured Event Notification URL for this package. If Event Notification has NOT been enabled, this value will be empty

Response Codes:	status	String [3]	Indicates the current status of the package.  Packages should exist in a <b>LIC</b> (Licensed state) unless cancelled, whereby they will be in a <b>CAN</b> (Cancelled) state.
	sbiAgreementAccepted	Boolean	Whether the SBI agreement has been accepted in the last year.
	acceptedSBIAgreement	DateTime	A DateTime indicating when the SBI agreement was last accepted.
	sbiAgreementExpires	DateTime	A DateTime indicating when the SBI agreement validity expires
	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
INTERNAL_ERROR		A problem on the server meant that the request could not be processed	
INVALID_PACKAGEID		The specified Package ID is invalid	
INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length	
INVALID_PARAMETER		Parameter [PARAMNAME] is invalid	

## Notes

### SBI Agreement Accepted

The `sbiAgreementAccepted` flag will indicate whether a vendor has accepted the SBI agreement within the past year – renewal of this agreement is an annual task. If a vendor has previously accepted the SBI agreement, but this acceptance date exceeds 1 year, the `acceptedSBIAgreement` date will indicate when it was last accepted and the `sbiAgreementExpires` date will indicate when the validity expired.

If a vendor has never accepted the SBI agreement, the `sbiAgreementAccepted` flag will be false and the `acceptedSBIAgreement` date and `sbiAgreementExpires` date will be January 1st 2000.

In the event of a non-OK response code, `sbiAgreementAccepted` will always be returned as false and the `acceptedSBIAgreement` date and `sbiAgreementExpires` date will always be January 1st 2000.

Method:	<b>CancelPackage</b>		
Description:	Cancels an existing package in the Bango system		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid
CANNOT_CANCEL_PACKAGE		You are unable to cancel this package	

## Notes

Cancellation of a package will result in the removal of all associated Bango Numbers/price points and termination of package services. This action is non-reversible.

Packages are not deleted from the Bango system to enable customers to still access financial details and to allow final out-payment of any earnings the package may have outstanding.

Once a package has been cancelled, subsequent calls to this method will return a `INVALID_PACKAGE_STATUS` response code.

Method:

## GetEmailAddresses

Description: Retrieve all associated email addresses and person IDs for this package.

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
packageId	Integer	✓	The unique identifier for the package on the Bango system

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status
adminPersonId	Integer	The generated unique person identifier for the administrator email address within the Bango system
adminEmailAddress	String [100]	The assigned email address of the administrator for this package
supportPersonId	Integer	The generated unique person identifier for the support contact email address within the Bango system
supportEmailAddress	String [100]	The assigned email address of the support contact for this package
financePersonId	Integer	The generated unique person identifier for the finance contact email address within the Bango system
financeEmailAddress	String [100]	The assigned email address of the finance contact for this package

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_PERSON	The specified Person is invalid
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid

## Notes

Where the same email address has been assigned to either the administrator, support or finance contact, the details will be duplicated in the return values of Email Address and Person ID.



Method:	<b>UpdateSupportEmailAddress</b>		
Description:	Update the associated support email address for this package.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
	emailAddress	String [100]	✓ The email address to change the registered support contact for this package.
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
	personId	Integer	The generated unique person identifier for the support contact email address within the Bango system
	personPassword	String [10]	The randomly generated password created when a new support contact account is created
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_EMAIL		Invalid email address construct
	INVALID_PERSON		The specified Person is invalid
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

If, in the process of updating the support contact, the specified email address does not exist on the system, then a new user account will be created along with a random password which is returned in the personPassword element.

If an email address supplied is already registered on the Bango System, then no new user account will be created. In this instance, the personPassword return values will be empty.

If the email address supplied is already the assigned support contact, an error response of INVALID\_PERSON will be returned.

Method:	<b>UpdateFinanceEmailAddress</b>																												
Description:	Update the associated finance email address for this package.																												
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>packageId</td> <td>Integer</td> <td>✓</td> <td>The unique identifier for the package on the Bango system</td> </tr> <tr> <td>emailAddress</td> <td>String [100]</td> <td>✓</td> <td>The email address to change the registered finance contact for this package.</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	packageId	Integer	✓	The unique identifier for the package on the Bango system	emailAddress	String [100]	✓	The email address to change the registered finance contact for this package.										
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Outputs:	<table border="1"> <tr> <td>responseCode</td> <td>String [50]</td> <td colspan="2">A response code indicating status of method call</td> </tr> <tr> <td>responseMessage</td> <td>String [255]</td> <td colspan="2">Textual description of request status</td> </tr> <tr> <td>personId</td> <td>Integer</td> <td colspan="2">The generated unique person identifier for the finance contact email address within the Bango system</td> </tr> <tr> <td>personPassword</td> <td>String [10]</td> <td colspan="2">The randomly generated password created when a new finance contact account is created</td> </tr> </table>			responseCode	String [50]	A response code indicating status of method call		responseMessage	String [255]	Textual description of request status		personId	Integer	The generated unique person identifier for the finance contact email address within the Bango system		personPassword	String [10]	The randomly generated password created when a new finance contact account is created											
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INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length																												
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## Notes

If, in the process of updating the finance contact, the specified email address does not exist on the system, then a new user account will be created along with a random password which is returned in the personPassword element.

If an email address supplied is already registered on the Bango System, then no new user account will be created. In this instance, the personPassword return values will be empty.

If the email address supplied is already the assigned finance contact, an error response of INVALID\_PERSON will be returned.

Method:

## SetEventNotificationURL

Description: Set the Event Notification URL for this package

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
packageId	Integer	✓	The unique identifier for the package on the Bango system
eventNotificationURL	String [255]	✓	The event notification URL to configure for this package; must include protocol of http(s)

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_URL	Invalid URL construct
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid

## Notes

Method:	<b>GetEventNotificationURL</b>		
Description:	Retrieve the configured Event Notification URL for this package		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
	eventNotificationEnabled	Boolean	Whether Event Notification has been enabled for this package
	eventNotificationURL	String [255]	The configured Event Notification URL for this package. If Event Notification has NOT been enabled, this value will be empty
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

Method:	<b>DeleteEventNotificationURL</b>																								
Description:	Delete the configured Event Notification URL for this package																								
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>packageId</td> <td>Integer</td> <td>✓</td> <td>The unique identifier for the package on the Bango system</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	packageId	Integer	✓	The unique identifier for the package on the Bango system										
username	String [50]	✓	Authentication Details Username																						
password	String [50]	✓	Authentication Details Password																						
packageId	Integer	✓	The unique identifier for the package on the Bango system																						
Outputs:	<table border="1"> <tr> <td>responseCode</td> <td>String [50]</td> <td colspan="2">A response code indicating status of method call</td> </tr> <tr> <td>responseMessage</td> <td>String [255]</td> <td colspan="2">Textual description of request status</td> </tr> </table>			responseCode	String [50]	A response code indicating status of method call		responseMessage	String [255]	Textual description of request status															
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responseMessage	String [255]	Textual description of request status																							
Response Codes:	<table border="1"> <tr> <td>OK</td> <td>Success</td> </tr> <tr> <td>ACCESS_DENIED</td> <td>Invalid username/password</td> </tr> <tr> <td>ACCESS_DENIED</td> <td>Invalid credentials. You are not authorized to call this method</td> </tr> <tr> <td>ACCESS_DENIED</td> <td>Request not over SSL</td> </tr> <tr> <td>ACCESS_DENIED</td> <td>Invalid client IP address</td> </tr> <tr> <td>SERVICE_UNAVAILABLE</td> <td>The service is currently unavailable and your request could not be processed</td> </tr> <tr> <td>INTERNAL_ERROR</td> <td>A problem on the server meant that the request could not be processed</td> </tr> <tr> <td>INVALID_PACKAGEID</td> <td>The specified Package ID is invalid</td> </tr> <tr> <td>INVALID_PACKAGE_STATUS</td> <td>The package is not licensed</td> </tr> <tr> <td>INVALID_STRING_LENGTH</td> <td>Parameter [PARAMNAME] passed exceeds maximum string length</td> </tr> <tr> <td>INVALID_PARAMETER</td> <td>Parameter [PARAMNAME] is invalid</td> </tr> </table>			OK	Success	ACCESS_DENIED	Invalid username/password	ACCESS_DENIED	Invalid credentials. You are not authorized to call this method	ACCESS_DENIED	Request not over SSL	ACCESS_DENIED	Invalid client IP address	SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed	INTERNAL_ERROR	A problem on the server meant that the request could not be processed	INVALID_PACKAGEID	The specified Package ID is invalid	INVALID_PACKAGE_STATUS	The package is not licensed	INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length	INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
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INVALID_PARAMETER	Parameter [PARAMNAME] is invalid																								

## Notes

Method:	<b>CreatePayPalDetails</b>																												
Description:	Add PayPal account details to an existing package																												
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>packageId</td> <td>Integer</td> <td>✓</td> <td>The unique identifier for the package on the Bango system</td> </tr> <tr> <td>paypalEmailAddress</td> <td>String [100]</td> <td>✓</td> <td>The PayPal registered email address for this package.</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	packageId	Integer	✓	The unique identifier for the package on the Bango system	paypalEmailAddress	String [100]	✓	The PayPal registered email address for this package.										
username	String [50]	✓	Authentication Details Username																										
password	String [50]	✓	Authentication Details Password																										
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INVALID_PARAMETER	Parameter [PARAMNAME] is invalid																												
PAYPAL_DETAILS_EXIST	PayPal account details already exist for this package																												

## Notes

PayPal account details are associated on a per package basis. Failure to supply these details will result in no out-payment of earnings via PayPal for this package.

Method:	<b>GetPayPalDetails</b>		
Description:	Get the registered PayPal account details for an existing package		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
	paypalEmailAddress	String [100]	The PayPal registered email address for this package.
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid
	PAYPAL_DETAILS_DO_NOT_EXIST		PayPal account details do not exist

## Notes

Method:	<b>UpdatePayPalDetails</b>		
Description:	Change the registered PayPal account details for an existing package		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
	paypalEmailAddress	String [100]	✓ The PayPal registered email address for this package.
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_EMAIL		Invalid email address construct
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid
	PAYPAL_DETAILS_DO_NOT_EXIST		PayPal account details do not exist

## Notes



Method:	<b>DeletePayPalDetails</b>																										
Description:	Delete the registered PayPal account details for an existing package																										
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>packageId</td> <td>Integer</td> <td>✓</td> <td>The unique identifier for the package on the Bango system</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	packageId	Integer	✓	The unique identifier for the package on the Bango system												
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INVALID_PACKAGE_STATUS	The package is not licensed																										
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length																										
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid																										
PAYPAL_DETAILS_DO_NOT_EXIST	PayPal account details do not exist																										

## Notes

PayPal account details are associated on a per package basis. Deletion of existing PayPal details registered against a Bango package will result in no out-payment of earnings via PayPal for this package.

Method:

## CreateBankDetails

Description: Add Bank account details to an existing package

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
packageId	Integer	✓	The unique identifier for the package on the Bango system
bankAccountPayeeName	String [50]	✓	The payee name of the account holder
bankAccountNumber	String[20]	✗	The account number of the bank account [see notes]
bankAccountCode	String[20]	✓	The bank / swift / sort / fedwire / CHAPS code of the bank account
bankIban	String[34]	✗	The account IBAN (International Bank Account Number) for the bank account [see notes]
bankName	String[50]	✓	The name of the bank at which the account is held
bankAddress1	String[50]	✓	The main address line of the bank at which the account is held
bankAddress2	String[50]	✗	The secondary address line of the bank at which the account is held
bankAddressCity	String[50]	✗	The city field of the bank address
bankAddressState	String[50]	✗	The state field of the bank address
bankAddressZipCode	String[50]	✓	The zip code of the bank address
bankAddressIso	String[3]	✓	The country code of the bank address

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_COUNTRYISO	The specified country ISO code is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds

	maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
BANK_DETAILS_EXIST	Bank account details already exist for this package

## Notes

You must supply a bank code (which can either be a sort, swift, CHAPS, bank, fedwire code associated with the account) and either an account number or an IBAN (International Bank Account Number).

Note – once bank details have been created, they cannot be updated programmatically through use of the Exporter – changes to these details must be addressed in writing to the Finance Department at Bango directly.

Method:

## GetBankDetails

Description: Get the registered Bank account details for an existing package

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
packageId	Integer	✓	The unique identifier for the package on the Bango system

Outputs:

responseCode	String [50]	A response code indicating status of method call	
responseMessage	String [255]	Textual description of request status	
bankAccountPayeeName	String [50]	The payee name of the account holder	Authenticati
bankAccountNumber	String[20]	The account number of the bank account	Authenticati
bankAccountCode	String[20]	The bank / swift / sort / fedwire / CHAPS code of the bank account	The unique the Bango s
bankIban	String[34]	The account IBAN for the bank account	The payee r
bankName	String[50]	The name of the bank at which the account is held	The account [see notes]
bankAddress1	String[50]	The main address line of the bank at which the account is held	The bank / s code of the
bankAddress2	String[50]	The secondary address line of the bank at which the account is held	The account [see notes]
bankAddressCity	String[50]	The city field of the bank address	The name o is held
bankAddressState	String[50]	The state field of the bank address	The main ac the account
bankAddressZipCode	String[50]	The zip code of the bank address	The second which the a
bankAddressIso	String[3]	The country code of the bank address	The city fiel

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
BANK_DETAILS_DO_NOT_EXIST	Bank account details do not exist for this package

## Notes

Method:

## UpdateAddressDetails

Description:

Change the address details of a package within the Bango system.

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
packageId	Integer	✓	The unique identifier for the package on the Bango system
vendorName	String [50]	✓	The name of the vendor.
address1	String [50]	✓	The main address line
address2	String [50]	✗	The secondary address line
addressCity	String [50]	✗	The city field of the address
addressState	String [50]	✗	The state field of the address
addressZipCode	String [10]	✓	The zip code of the address
addressPhone	String [20]	✗	The telephone contact number of the vendor
addressFax	String [20]	✗	The fax contact number of the vendor
addressCountryIso	String [3]	✓	A three letter ISO code specifying the country the package is being created for. Refer to the appendix for supported country ISO codes.
homePageURL	String [255]	✗	The homepage URL of the vendor

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
INVALID_COUNTRYISO	specified country ISO code is invalid



## Notes

Note – the company name can only be set when calling **CreatePackage**, it cannot be subsequently changed on calls to update address details, however, you are able to update the Vendor Name which is used for naming and configuration parameters for carrier billing.

Method:	<b>SetVATNumber</b>		
Description:	Set the registered VAT number for an existing package.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
	vatNumber	String[20]	✓ The VAT Number
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid
INVALID_ADDRESS_DETAILS		No address details have been specified	

## Notes

If address details have not been previously specified for this package, calling this method will return an **INVALID\_ADDRESS\_DETAILS** error response. You must ensure the address details have been supplied in the **CreatePackage** or **UpdateAddressDetails** methods prior to calling this method.



Method:	<b>GetVATNumber</b>		
Description:	Get the VAT number for an existing package.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
	vatNumber	String[50]	The VAT number associated with the package
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid
	INVALID_ADDRESS_DETAILS		No address details have been specified
	VAT_NUMBER_DOES_NOT_EXIST		There is no VAT number for the specified Package ID

## Notes

If address details have not been previously specified for this package, calling this method will return an INVALID\_ADDRESS\_DETAILS error response.

Calling this method where a VAT number has not been previously set will return a VAT\_NUMBER\_DOES\_NOT\_EXIST error response.

Method:	<b>DeleteVATNumber</b>		
Description:	Delete the registered VAT number for an existing package.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid
	INVALID_ADDRESS_DETAILS		No address details have been specified
	VAT_NUMBER_DOES_NOT_EXIST		There is no VAT number for the specified Package ID

## Notes

If address details have not been previously specified for this package, calling this method will return an INVALID\_ADDRESS\_DETAILS error response.

Calling this method where a VAT number has not been previously set will return a VAT\_NUMBER\_DOES\_NOT\_EXIST error response.

Method:	<b>GetSBIAgreement</b>		
Description:	Retrieve the textual content of the SBI Agreement for this package.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
	sbiAgreement	String [8000]	Textual content of the SBI agreement (formatted with new line characters)
	sbiAgreementValidFrom	DateTime	A DateTime indicating when the current SBI agreement text is valid from (note: this is not the same as the date the SBI agreement was accepted by the vendor)
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_ADDRESS_DETAILS		The specified Package ID does not have valid address details
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

This method is used to programmatically retrieve the current SBI agreement text from Bango. We include an `sbiAgreementValidFrom` `DateTime` element to ensure that if you cache the text, you can check you are showing the latest version. Note: this is **not** the same as the date the SBI agreement was accepted by the vendor.

The `sbiAgreement` element contains all of the required text, formatted with newline characters to allow parsing for display in your website / application.

The `sbiAgreement` contains company name and address details which should have been provided using the **CreatePackage** / **UpdateAddressDetails** methods. If these details are not available, the response message will be `INVALID_ADDRESS_DETAILS`.

Method:	<b>AcceptSBIAgreement</b>		
Description:	Set that the vendor has accepted the terms and conditions of the SBI agreement.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageld	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_ADDRESS_DETAILS		The specified Package ID does not have valid address details
	SBI_ALREADY_ACCEPTED		The specified Package ID has already accepted the SBI agreement
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

To accept the SBI agreement, the vendor must already have company name and address details set for the specified Package ID.

The SBI agreement acceptance will last for 1 year from the date this method is successfully called. Subsequent calls to this method within this period will result in a response of SBI\_ALREADY\_ACCEPTED.

The status of the SBI agreement acceptance can only be updated after the current agreement date has expired (see **GetAcceptedSBIAgreement** method); however, we do offer a 30 day grace period prior to expiry when the SBI agreement can be accepted once again.

For example, if a vendor accepts the SBI agreement on the 1<sup>st</sup> October 2010, it will remain valid until 1<sup>st</sup> October 2011. However, on 1<sup>st</sup> September 2011, it will be possible to call this method to extend the agreement before the current agreement period expires. The previously accepted date will be taken into account and the validity period will again run until 1<sup>st</sup> October 2012.

Method:	<b>GetAcceptedSBIAgreement</b>																										
Description:	Retrieves the status and last accepted date of the SBI agreement.																										
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>packageId</td> <td>Integer</td> <td>✓</td> <td>The unique identifier for the package on the Bango system</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	packageId	Integer	✓	The unique identifier for the package on the Bango system												
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## Notes

The `sbiAgreementAccepted` flag will indicate whether a vendor has accepted the SBI agreement within the past year – renewal of this agreement is an annual task. If a vendor has previously accepted the SBI agreement, but this acceptance date exceeds 1 year, the `acceptedSBIAgreement` date will indicate when it was last accepted.

If a vendor has **never** accepted the SBI agreement, the `sbiAgreementAccepted` flag will be **false** and the `acceptedSBIAgreement` date and `sbiAgreementExpires` date will be **January 1<sup>st</sup> 2000**.

Method:	<b>EnableCreditCardForBilling</b>		
Description:	Specifically allow credit card payments for this package where credit card has previously been disabled.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

By default, the Bango BillRank™ system will select the best payment method available to the user at the time of billing request. This may result in Credit Card being presented as an option where on-bill or PSMS methods are not currently available.

This method allows you to specifically enable the use of Credit Card as a payment method for the entire package where previously it has been disabled.

Method:	<b>DisableCreditCardForBilling</b>		
Description:	Specifically deny credit card payments for this package.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	packageId	Integer	✓ The unique identifier for the package on the Bango system
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

By default, the Bango BillRank™ system will select the best payment method available to the user at the time of billing request. This may result in Credit Card being presented as an option where on-bill or PSMS methods are not currently available.

This method allows you to specifically deny the use of Credit Card as a payment method for the entire package.

Method:	<b>GetAutoAuthenticationLoginToken</b>																												
Description:	Retrieve an auto authentication token for use in accessing a vendor portal (where available) for this person and package.																												
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>packageId</td> <td>Integer</td> <td>✓</td> <td>The unique identifier for the package on the Bango system</td> </tr> <tr> <td>personId</td> <td>Integer</td> <td>✓</td> <td>The unique person identifier for the email address within the Bango system</td> </tr> <tr> <td>emailAddress</td> <td>String [100]</td> <td>✓</td> <td>The email address of the developer you wish to create a login token for.</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	packageId	Integer	✓	The unique identifier for the package on the Bango system	personId	Integer	✓	The unique person identifier for the email address within the Bango system	emailAddress	String [100]	✓	The email address of the developer you wish to create a login token for.						
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## Notes

The tokenExpiry date will always be expressed in UTC time format.

Once an authentication token has been issued, it has an expiry lifetime of 10 minutes. Within this period, a vendor can be redirected to the portal site using the token and confirmation credentials (to be provided) and will be auto processed and authenticated without having to log in. Once done, the token will automatically be expired.





If a token is not utilised within the 10 minute expiry lifetime, passing a vendor to the portal will result in an error as they will not be able to authenticate.

An authentication token can only be generated for a known user account with permissions over the specified package – this can be for the administrator, support, or finance contacts only – any other requested email address / person ID will return an INVALID\_PERSONID response code.

Multiple requests to this method within the expiry time (less a grace period of **1 minute**) will return the same authentication token for a given package ID, email address and person ID combination (while it remains an unclaimed token). A further request to this method after the expiry time will create a new authentication token, and the previous token will be invalidated (expired).

## Methods and Interfaces - Number Management

Method:	<b>CreateBangoNumber</b>																										
Description:	Creates a new Bango Number within the Bango system for association against a product.																										
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>packageId</td> <td>Integer</td> <td>✓</td> <td>The package identifier this Bango Number should be created for</td> </tr> <tr> <td>name</td> <td>String [100]</td> <td>✓</td> <td>The name of the new Bango Number</td> </tr> <tr> <td>categoryId</td> <td>Integer</td> <td>✓</td> <td>The specific category ID mapping related to available application categories (see appendix)</td> </tr> <tr> <td>applicationSize</td> <td>String [10]</td> <td>✗</td> <td>The size of the application specified in KB</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	packageId	Integer	✓	The package identifier this Bango Number should be created for	name	String [100]	✓	The name of the new Bango Number	categoryId	Integer	✓	The specific category ID mapping related to available application categories (see appendix)	applicationSize	String [10]	✗	The size of the application specified in KB
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### Notes

The category id value should be a valid mapping for the table shown in the Appendix. If an invalid category id is passed, the value will be stored in the system, however, the mapping of this id to a category describing the product / genre will be invalid, and Bango will revert to system defaults in this instance.

Method:	<b>MakePremiumPerAccess</b>																						
Description:	Enables a previously created Bango Number to be used for premium billing on a per access billing model																						
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to enable billing on</td> </tr> <tr> <td>price</td> <td>Decimal</td> <td>✓</td> <td>Specify the price point for this Bango Number (as a decimal). A value greater than <b>0</b> must be supplied. Refer to appendix on maximum price points supported.</td> </tr> <tr> <td>currencyIso</td> <td>String [3]</td> <td>✓</td> <td>Specify the default base currency to be used by the specified Bango Number. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to enable billing on	price	Decimal	✓	Specify the price point for this Bango Number (as a decimal). A value greater than <b>0</b> must be supplied. Refer to appendix on maximum price points supported.	currencyIso	String [3]	✓	Specify the default base currency to be used by the specified Bango Number. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand
username	String [50]	✓	Authentication Details Username																				
password	String [50]	✓	Authentication Details Password																				
bango	String [50]	✓	The Bango Number to enable billing on																				
price	Decimal	✓	Specify the price point for this Bango Number (as a decimal). A value greater than <b>0</b> must be supplied. Refer to appendix on maximum price points supported.																				
currencyIso	String [3]	✓	Specify the default base currency to be used by the specified Bango Number. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand																				
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INVALID_BANGO	The specified Bango Number is invalid																						

INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_CURRENCYISO	The specified currency ISO code is invalid
INVALID_ACCESSMODEL	The specified access model is invalid or not supported
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
PRICE_EXCEEDED	The specified price point exceeds the maximum price point supported for that currency
PRICE_LESS_THAN_MINIMUM	The specified price point is less than the minimum value supported
PRICE_ZERO_FOR_NON_FREE_ACCESS_MODEL	The price cannot be zero when the supplied access model is not 'free'
ACCESSMODEL_DENIED	The specified access model is not allowed
DEFAULT_CURRENCY_SETTING_DENIED	The facility to set different default currency pricing with this package is not allowed
BANGO_ALREADY_PREMIUM_ENABLED	The specified Bango Number is already enabled for premium billing

## Notes

The MakePremiumPerAccess call can be used to specify the default currency to be used for pricing and billing. This facility is enabled on a per package basis; if it has not been enabled for the particular package and the passed currencyISO is not the same as the base currency used when the package was created, a response of DEFAULT\_CURRENCY\_SETTING\_DENIED will be returned.

Method:	<b>MakePremiumMultiAccess</b>																										
Description:	Enables a previously created Bango Number to be used for premium billing on a multi-access billing model																										
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to enable billing on</td> </tr> <tr> <td>numberOfAccesses</td> <td>Integer</td> <td>✓</td> <td>When specifying Multi Access model, specify the number of accesses which can be made to a Bango Number before a user is billed again. A value greater than <b>1</b> should be used, otherwise the access model will automatically default to Per Access model. Maximum accesses = 999</td> </tr> <tr> <td>price</td> <td>Decimal</td> <td>✓</td> <td>Specify the price point for this Bango Number (as a decimal). A value greater than <b>0</b> must be supplied. Refer to appendix on maximum price points supported.</td> </tr> <tr> <td>currencyIso</td> <td>String [3]</td> <td>✓</td> <td>Specify the default base currency to be used by the specified Bango Number. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to enable billing on	numberOfAccesses	Integer	✓	When specifying Multi Access model, specify the number of accesses which can be made to a Bango Number before a user is billed again. A value greater than <b>1</b> should be used, otherwise the access model will automatically default to Per Access model. Maximum accesses = 999	price	Decimal	✓	Specify the price point for this Bango Number (as a decimal). A value greater than <b>0</b> must be supplied. Refer to appendix on maximum price points supported.	currencyIso	String [3]	✓	Specify the default base currency to be used by the specified Bango Number. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand
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ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_CURRENCYISO	The specified currency ISO code is invalid
INVALID_ACCESSMODEL	The specified access model is invalid or not supported
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
PRICE_EXCEEDED	The specified price point exceeds the maximum price point supported for that currency
PRICE_LESS_THAN_MINIMUM	The specified price point is less than the minimum value supported
PRICE_ZERO_FOR_NON_FREE_ACCESS_MODEL	The price cannot be zero when the supplied access model is not 'free'
ACCESSMODEL_DENIED	The specified access model is not allowed
ACCESSMODEL_NUMBER_OF_ACCESSES_EXCEEDED	The specified number of access exceeds the maximum supported number of accesses
ACCESSMODEL_NUMBER_OF_ACCESSES_LESS_THAN_MINIMUM	The specified number of accesses is less than the minimum value supported
ACCESSMODEL_NUMBER_OF_ACCESSES_LESS_THAN_ONE	The specified number of accesses is less than one
DEFAULT_CURRENCY_SETTING_DENIED	The facility to set different default currency pricing with this package is not allowed
BANGO_ALREADY_PREMIUM_ENABLED	The specified Bango Number is already enabled for premium billing

## Notes

The MakePremiumMultiAccess call can be used to specify the default currency to be used for pricing and billing. This facility is enabled on a per package basis; if it has not been enabled for the particular package and the passed currencyISO is not the same as the base currency used when the package was created, a response of DEFAULT\_CURRENCY\_SETTING\_DENIED will be returned.

Method:	<b>MakePremiumTimed</b>																														
Description:	Enables a previously created Bango Number to be used for premium billing on a timed billing model																														
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to enable billing on</td> </tr> <tr> <td>validTime</td> <td>Integer</td> <td>✓</td> <td>Specify the period of access to a particular Bango number per payment transaction. Maximum period = 525600 minutes (365 days)</td> </tr> <tr> <td>validTimeUnit</td> <td>String [10]</td> <td>✓</td> <td>The time unit specified in validTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b></td> </tr> <tr> <td>price</td> <td>Decimal</td> <td>✓</td> <td>Specify the price point for this Bango Number (as a decimal). A value greater than <b>0</b> must be supplied. Refer to appendix on maximum price points supported.</td> </tr> <tr> <td>currencyIso</td> <td>String [3]</td> <td>✓</td> <td>Specify the default base currency to be used by the specified Bango Number. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to enable billing on	validTime	Integer	✓	Specify the period of access to a particular Bango number per payment transaction. Maximum period = 525600 minutes (365 days)	validTimeUnit	String [10]	✓	The time unit specified in validTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b>	price	Decimal	✓	Specify the price point for this Bango Number (as a decimal). A value greater than <b>0</b> must be supplied. Refer to appendix on maximum price points supported.	currencyIso	String [3]	✓	Specify the default base currency to be used by the specified Bango Number. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand
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bango	String [50]	✓	The Bango Number to enable billing on																												
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Outputs:	<table border="1"> <tr> <td>responseCode</td> <td>String [50]</td> <td colspan="2">A response code indicating status of method call</td> </tr> <tr> <td>responseMessage</td> <td>String [255]</td> <td colspan="2">Textual description of request status</td> </tr> </table>			responseCode	String [50]	A response code indicating status of method call		responseMessage	String [255]	Textual description of request status																					
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Response	OK		Success																												

Codes:	ACCESS_DENIED	Invalid username/password
	ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED	Request not over SSL
	ACCESS_DENIED	Invalid client IP address
	SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR	A problem on the server meant that the request could not be processed
	INVALID_BANGO	The specified Bango Number is invalid
	INVALID_PACKAGEID	The specified Package ID is invalid
	INVALID_PACKAGE_STATUS	The package is not licensed
	INVALID_CURRENCYISO	The specified currency ISO code is invalid
	INVALID_ACCESSMODEL	The specified access model is invalid or not supported
	INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
	PRICE_EXCEEDED	The specified price point exceeds the maximum price point supported for that currency
	PRICE_LESS_THAN_MINIMUM	The specified price point is less than the minimum value supported
	PRICE_ZERO_FOR_NON_FREE_ACCESS_MODEL	The price cannot be zero when the supplied access model is not 'free'
	ACCESSMODEL_DENIED	The specified access model is not allowed
	ACCESSMODEL_TIME_PERIOD_EXCEEDED	The specified time period exceeds the maximum supported time periods
	ACCESSMODEL_TIME_PERIOD_LESS_THAN_MINIMUM	The specified time period is less than the minimum value supported
	ACCESSMODEL_TIME_PERIOD_LESS_THAN_ONE	The specified time period is less than one
DEFAULT_CURRENCY_SETTING_DENIED	The facility to set different default currency pricing with this package is not allowed	
BANGO_ALREADY_PREMIUM_ENABLED	The specified Bango Number is already enabled for premium billing	

## Notes

The MakePremiumTimed call can be used to specify the default currency to be used for pricing and billing. This facility is enabled on a per package basis; if it has not been enabled for the particular package and the passed currencyISO is not the same as the base currency used when the package was created, a response of DEFAULT\_CURRENCY\_SETTING\_DENIED will be returned.



Method:

## MakePremiumRepeat

Description: Enables a previously created Bango Number to be used for premium billing on a subscription billing model

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
bango	String [50]	✓	The Bango Number to enable billing on
validTime	Integer	✓	Specify the period of access (in minutes) to a particular Bango number per payment transaction. Maximum period = 525600 minutes (365 days)
validTimeUnit	String [10]	✓	The time unit specified in validTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
initialTime	Integer	✗	When using REPEAT subscription model, you can specify an initial price which may differ from the recurring subscription price. You can also specify an initial period which can differ from the validTime parameter, such as when offering a discount on a subscription for a reduced period before the subscription reverts to the standard price and renewal period. Maximum period = 525600 minutes (365 days)
initialTimeUnit	String [10]	✗	The time unit specified in initialTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
initialTimeApplies	Boolean	✓	Flag to specify whether the initialTime parameter should apply. If set to <b>FALSE</b> any values in the initialTime parameter will be ignored.
exclusionPeriod	Integer	✗	When using REPEAT subscription model, you can specify an exclusion period (in

			minutes) whereby after a user cancels a subscription they can re-enable it only after this exclusion period has passed. Maximum period = 52034400 minutes (36135 days or 99 years)
exclusionPeriodUnit	String [10]	✗	The time unit specified in exclusionPeriod. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
exclusionPeriodApplies	Boolean	✓	Flag to specify whether the exclusionPeriod parameter should apply. If set to <b>FALSE</b> any values in the exclusionPeriod parameter will be ignored.
price	Decimal	✓	Specify the price point for this Bango Number (as a decimal). A value greater than <b>0</b> must be supplied. Refer to appendix on maximum price points supported.
initialPrice	Decimal	✗	When using REPEAT subscription model, if you have specified an initialValidTime, you can also specify a different price point which applies during this initial period. If you specify an initial price, it must be greater than <b>0</b> . Refer to appendix on maximum price points supported.
initialPriceApplies	Boolean	✓	Flag to specify whether the initialPrice parameter should apply. If set to <b>FALSE</b> any values in the initialPrice parameter will be ignored.
currencyIso	String [3]	✓	Specify the default base currency to be used by the specified Bango Number. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand <b>IRD</b> - Indonesian Rupiah <b>COP</b> - Colombian Pesos

Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_BANGO		The specified Bango Number is invalid
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_CURRENCYISO		The specified currency ISO code is invalid
	INVALID_ACCESSMODEL		The specified access model is invalid or not supported
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid
	PRICE_EXCEEDED		The specified price point exceeds the maximum price point supported for that currency
	PRICE_LESS_THAN_MINIMUM		The specified price point is less than the minimum value supported
	PRICE_ZERO_FOR_NON_FREE_ACCESS_MODEL		The price cannot be zero when the supplied access model is not 'free'
	INITIAL_PRICE_EXCEEDED		The specified initial price point exceeds the maximum price point supported for that currency
	INITIAL_PRICE_LESS_THAN_MINIMUM		The specified initial price point is less than the minimum value supported
	ACCESSMODEL_DENIED		The specified access model is not allowed
	ACCESSMODEL_TIME_PERIOD_EXCEEDED		The specified time period exceeds the maximum supported time periods
	ACCESSMODEL_TIME_PERIOD_LESS_THAN_MINIMUM		The specified time period is less than the minimum value supported
	ACCESSMODEL_TIME_PERIOD_LESS_THAN_ONE		The specified time period is less than one
	ACCESSMODEL_INITIAL_TIME_PERIOD_EXCEEDED		The specified initial time period exceeds the maximum supported time periods
	ACCESSMODEL_INITIAL_TIME_PERIOD_LESS_THAN_MINIMUM		The specified initial time period is less than the minimum value supported
	ACCESSMODEL_INITIAL_TIME_PERIOD_LESS_THAN_ONE		The specified initial time period is less than one
	ACCESSMODEL_EXCLUSION_PERIOD_EXCEEDED		The specified exclusion period exceeds the maximum supported time periods
	ACCESSMODEL_EXCLUSION_PERIOD_LESS_THAN_MINIMUM		The specified exclusion period is less than the minimum value supported
	ACCESSMODEL_EXCLUSION_		The specified exclusion period is less than

PERIOD_LESS_THAN_ONE	one
DEFAULT_CURRENCY_SETTING_DENIED	The facility to set different default currency pricing with this package is not allowed
BANGO_ALREADY_PREMIUM_ENABLED	The specified Bango Number is already enabled for premium billing

## Notes

The MakePremiumRepeat call can be used to specify the default currency to be used for pricing and billing. This facility is enabled on a per package basis; if it has not been enabled for the particular package and the passed currencyISO is not the same as the base currency used when the package was created, a response of DEFAULT\_CURRENCY\_SETTING\_DENIED will be returned.

Method:	<b>CreatePricePoint</b>																														
Description:	Creates a new price point for a different currency than the default currency against an existing Bango Number which has been enabled for premium billing.																														
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to add a price point to</td> </tr> <tr> <td>price</td> <td>Decimal</td> <td>✓</td> <td>Specify the price point for this Bango number (as a decimal). Refer to appendix on maximum price points supported.</td> </tr> <tr> <td>initialPrice</td> <td>Decimal</td> <td>✗</td> <td>When using REPEAT subscription model, if you have specified an initialValidTime when calling the <b>MakePremiumRepeat</b> method, you can also specify a different price which applies during this initial period. If you specify an initial price, it must be greater than 0. This value is not required for other access models and a value of <b>0</b> should be passed.</td> </tr> <tr> <td>initialPriceApplies</td> <td>Boolean</td> <td>✓</td> <td>Flag to specify whether the initialPrice parameter should apply. If set to <b>FALSE</b> any values in the initialPrice parameter will be ignored.</td> </tr> <tr> <td>currencyIso</td> <td>String [3]</td> <td>✓</td> <td>Specify the currency which the price point applies to. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand <b>IRD</b> - Indonesian Rupiah <b>COP</b> - Colombian Pesos</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to add a price point to	price	Decimal	✓	Specify the price point for this Bango number (as a decimal). Refer to appendix on maximum price points supported.	initialPrice	Decimal	✗	When using REPEAT subscription model, if you have specified an initialValidTime when calling the <b>MakePremiumRepeat</b> method, you can also specify a different price which applies during this initial period. If you specify an initial price, it must be greater than 0. This value is not required for other access models and a value of <b>0</b> should be passed.	initialPriceApplies	Boolean	✓	Flag to specify whether the initialPrice parameter should apply. If set to <b>FALSE</b> any values in the initialPrice parameter will be ignored.	currencyIso	String [3]	✓	Specify the currency which the price point applies to. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand <b>IRD</b> - Indonesian Rupiah <b>COP</b> - Colombian Pesos
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ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_CURRENCYISO	The specified currency ISO code is invalid
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
PRICE_EXCEEDED	The specified price point exceeds the maximum price point supported for that currency
PRICE_LESS_THAN_MINIMUM	The specified price point is less than the minimum value supported
INITIAL_PRICE_EXCEEDED	The specified initial price point exceeds the maximum price point supported for that currency
INITIAL_PRICE_LESS_THAN_MINIMUM	The specified initial price point is less than the minimum value supported
PRICE_POINT_EXISTS	The specified price point already exists
BANGO_NOT_PREMIUM_ENABLED	The specified Bango Number is not enabled for premium billing
MULTI_CURRENCY_PRICING_DENIED	The facility to set multi-currency pricing with this package is not allowed

## Notes

Use of `initialPriceApplies` and `initialPrice` parameters is only valid when using managed subscriptions. Calls to this method when the specified Bango Number is not using the subscription access model will ignore any values set for `initialPriceApplies` and `initialPrice`.

Method:	<b>GetPricePoint</b>																										
Description:	Gets pricing details for a price point against an existing Bango Number which has been enabled for premium billing.																										
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INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_CURRENCYISO	The specified currency ISO code is invalid
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
PRICE_POINT_DOES_NOT_EXIST	The specified price point does not exist
BANGO_NOT_PREMIUM_ENABLED	The specified Bango Number is not enabled for premium billing

## Notes

The `initialPriceApplies` and `initialPrice` parameters are only valid when using managed subscriptions. Calls to this method when the specified Bango Number is not using the subscription access model should ignore any values set for `initialPriceApplies` and `initialPrice`. They will always default to **FALSE** and **0** respectively.



Method:	<b>GetPricePoints</b>																														
Description:	Gets pricing details for all price points against an existing Bango Number which has been enabled for premium billing.																														
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to enable billing on</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to enable billing on																
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BANGO_NOT_PREMIUM_ENABLED	The specified Bango Number is not enabled for premium billing																														

## Notes

The initialPriceApplies and initialPrice parameters are only valid when using managed subscriptions. Calls to this method when the specified Bango Number is not using the subscription access model should ignore any values set for initialPriceApplies and initialPrice. They will always default to **FALSE** and **0** respectively.



There will be multiple elements output for the price points for a single Bango Number to encapsulate different currencies and price points.



Method:

## GetMaximumPricePoint

Description: Gets maximum pricing for a price point against an existing Bango Number.

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
bango	String [50]	✓	The Bango Number to retrieve pricing point details for
currencyIso	String [3]	✓	Specify the currency which the price point applies to. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand <b>IRD</b> - Indonesian Rupiah <b>COP</b> - Colombian Pesos

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status
maximumPrice	Decimal	The maximum price point supported for the requested currency ISO

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_CURRENCYISO	The specified currency ISO code is invalid
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length

INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
PRICE_POINT_DOES_NOT_EXIST	The specified price point does not exist

## Notes

Method:	<b>GetMaximumPricePoints</b>		
Description:	Gets maximum pricing for all price points against an existing Bango Number.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	bango	String [50]	✓ The Bango Number to retrieve pricing point details for
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
	/maximumPricePoints/ maximumPricePoint/maximumPrice	Decimal	The maximum price point for the currency specified
	/maximumPricePoints/ maximumPricePoint/currencyIso	String [3]	The currency for this particular maximum price point
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_BANGO		The specified Bango Number is invalid
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] passed exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

There will be multiple elements output for the maximum price points for a single Bango Number to encapsulate different currencies and maximum price points.

Method:	<b>UpdatePricePoint</b>																														
Description:	Updates an existing price point against an existing Bango Number which has been enabled for premium billing.																														
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to enable billing on</td> </tr> <tr> <td>price</td> <td>Decimal</td> <td>✓</td> <td>Specify the price point for this Bango number (as a decimal). Refer to appendix on maximum price points supported.</td> </tr> <tr> <td>initialPrice</td> <td>Decimal</td> <td>✗</td> <td>When using REPEAT subscription model, if you have specified an initialValidTime when calling the <b>MakePremiumRepeat</b> method, you can also specify a different price which applies during this initial period. If you specify an initial price, it must be greater than 0. This value is not required for other access models and a value of <b>0</b> should be passed.</td> </tr> <tr> <td>initialPriceApplies</td> <td>Boolean</td> <td>✓</td> <td>Flag to specify whether the initialPrice parameter should apply. If set to <b>FALSE</b> any values in the initialPrice parameter will be ignored.</td> </tr> <tr> <td>currencyIso</td> <td>String [3]</td> <td>✓</td> <td>Specify the currency which the price point applies to. Bango support these possible currencies -  <b>USD</b> - US Dollars  <b>GBP</b> - Pounds Sterling  <b>EUR</b> - Euro  <b>AUD</b> - Australian Dollars  <b>CAD</b> - Canadian Dollars  <b>CHF</b> - Swiss Francs  <b>DKK</b> - Danish Krone  <b>MYR</b> - Malaysian Ringgit  <b>NOK</b> - Norwegian Krone  <b>NZD</b> - New Zealand Dollars  <b>SEK</b> - Swedish Krone  <b>SGD</b> - Singapore Dollar  <b>THB</b> - Thai Baht  <b>ZAR</b> - South African Rand  <b>IRD</b> - Indonesian Rupiah  <b>COP</b> - Colombian Pesos</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to enable billing on	price	Decimal	✓	Specify the price point for this Bango number (as a decimal). Refer to appendix on maximum price points supported.	initialPrice	Decimal	✗	When using REPEAT subscription model, if you have specified an initialValidTime when calling the <b>MakePremiumRepeat</b> method, you can also specify a different price which applies during this initial period. If you specify an initial price, it must be greater than 0. This value is not required for other access models and a value of <b>0</b> should be passed.	initialPriceApplies	Boolean	✓	Flag to specify whether the initialPrice parameter should apply. If set to <b>FALSE</b> any values in the initialPrice parameter will be ignored.	currencyIso	String [3]	✓	Specify the currency which the price point applies to. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand <b>IRD</b> - Indonesian Rupiah <b>COP</b> - Colombian Pesos
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password	String [50]	✓	Authentication Details Password																												
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initialPriceApplies	Boolean	✓	Flag to specify whether the initialPrice parameter should apply. If set to <b>FALSE</b> any values in the initialPrice parameter will be ignored.																												
currencyIso	String [3]	✓	Specify the currency which the price point applies to. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand <b>IRD</b> - Indonesian Rupiah <b>COP</b> - Colombian Pesos																												
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ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_CURRENCYISO	The specified currency ISO code is invalid
INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
PRICE_EXCEEDED	The specified price point exceeds the maximum price point supported for that currency
PRICE_LESS_THAN_MINIMUM	The specified price point is less than the minimum value supported
INITIAL_PRICE_EXCEEDED	The specified initial price point exceeds the maximum price point supported for that currency
INITIAL_PRICE_LESS_THAN_MINIMUM	The specified initial price point is less than the minimum value supported
PRICE_POINT_DOES_NOT_EXIST	The specified price point does not exist
BANGO_NOT_PREMIUM_ENABLED	The specified Bango Number is not enabled for premium billing
MULTI_CURRENCY_PRICING_DENIED	The facility to set multi-currency pricing with this package is not allowed

## Notes

Use of `initialPriceApplies` and `initialPrice` parameters is only valid when using managed subscriptions. Calls to this method when the specified Bango Number is not using the subscription access model will ignore any values set for `initialPriceApplies` and `initialPrice`.

Method:	<b>DeletePricePoint</b>																														
Description:	Deletes a price point against an existing Bango Number which has been enabled for premium billing.																														
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to enable billing on</td> </tr> <tr> <td>currencyIso</td> <td>String [3]</td> <td>✓</td> <td>Specify the currency which the price point applies to. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand <b>IRD</b> - Indonesian Rupiah <b>COP</b> - Colombian Pesos</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to enable billing on	currencyIso	String [3]	✓	Specify the currency which the price point applies to. Bango support these possible currencies - <b>USD</b> - US Dollars <b>GBP</b> - Pounds Sterling <b>EUR</b> - Euro <b>AUD</b> - Australian Dollars <b>CAD</b> - Canadian Dollars <b>CHF</b> - Swiss Francs <b>DKK</b> - Danish Krone <b>MYR</b> - Malaysian Ringgit <b>NOK</b> - Norwegian Krone <b>NZD</b> - New Zealand Dollars <b>SEK</b> - Swedish Krone <b>SGD</b> - Singapore Dollar <b>THB</b> - Thai Baht <b>ZAR</b> - South African Rand <b>IRD</b> - Indonesian Rupiah <b>COP</b> - Colombian Pesos												
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INVALID_STRING_LENGTH	Parameter [PARAMNAME] passed exceeds maximum string length																														
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid																														
PRICE_POINT_DOES_NOT_EXIST	The specified price point does not exist																														



	DEFAULT_CURRENCY_CANNOT_BE_DELETED	The specified price point is the default currency for this Bango Number and cannot be deleted
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## Notes

Method:

## UpdateAccessModelPerAccess

Description: Changes the access model for a Bango Number to per access payment model

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
bango	String [50]	✓	The Bango Number to update to PER ACCESS billing model

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_ACCESSMODEL	The specified access model is invalid or not supported
INVALID_STRING_LENGTH	Parameter [PARAMNAME] exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
ACCESSMODEL_DENIED	The specified access model is not allowed
BANGO_NOT_PREMIUM_ENABLED	The specified Bango Number is not enabled for premium billing

## Notes

Method:

## UpdateAccessModelMultiAccess

Description:

Changes the access model for a Bango Number to multi access payment model

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
bango	String [50]	✓	The Bango Number to enable billing on
numberOfAccesses	Integer	✓	When specifying Multi Access model, specify the number of accesses which can be made to a Bango Number before a user is billed again. A value greater than <b>1</b> should be used, otherwise the access model will automatically default to Per Access model. Maximum accesses = 999

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_ACCESSMODEL	The specified access model is invalid or not supported
INVALID_STRING_LENGTH	Parameter [PARAMNAME] exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
ACCESSMODEL_DENIED	The specified access model is not allowed
ACCESSMODEL_NUMBER_OF_ACCESSSES_EXCEEDED	The specified number of access exceeds the maximum supported number of accesses
ACCESSMODEL_NUMBER_OF_ACCESSSES_LESS_THAN_MINIMUM	The specified number of accesses is less than the minimum value supported
ACCESSMODEL_NUMBER_OF_ACCESSSES_LESS_THAN_ONE	The specified number of accesses is less than one
BANGO_NOT_PREMIUM_ENABLED	The specified Bango Number is not enabled for premium billing



## Notes

Method:

## UpdateAccessModelTimed

Description:

Changes the access model for a Bango Number to timed payment model

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
bango	String [50]	✓	The Bango Number to enable billing on
validTime	Integer	✓	Specify the period of access to a particular Bango number per payment transaction. Maximum period = 525600 minutes (365 days)
validTimeUnit	String [10]	✓	The time unit specified in validTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_ACCESSMODEL	The specified access model is invalid or not supported
INVALID_STRING_LENGTH	Parameter [PARAMNAME] exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
ACCESSMODEL_DENIED	The specified access model is not allowed
ACCESSMODEL_TIME_PERIOD_EXCEEDED	The specified time period exceeds the maximum supported time periods
ACCESSMODEL_TIME_PERIOD_LESS_THAN_MINIMUM	The specified time period is less than the minimum value supported
ACCESSMODEL_TIME_PERIOD_	The specified time period is less than one

	LESS_THAN_ONE	
	BANGO_NOT_PREMIUM_ENABLED	The specified Bango Number is not enabled for premium billing

## Notes

Method:

## UpdateAccessModelRepeat

Description: Changes the access model for a Bango Number to repeat (managed subscription) payment model

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
bango	String [50]	✓	The Bango Number to enable billing on
validTime	Integer	✓	Specify the period of access (in minutes) to a particular Bango number per payment transaction. Maximum period = 525600 minutes (365 days)
validTimeUnit	String [10]	✓	The time unit specified in validTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
initialTime	Integer	✗	When using REPEAT subscription model, you can specify an initial price which may differ from the recurring subscription price. You can also specify an initial period which can differ from the validTime parameter, such as when offering a discount on a subscription for a reduced period before the subscription reverts to the standard price and renewal period. Maximum period = 525600 minutes (365 days)
initialTimeUnit	String [10]	✗	The time unit specified in initialTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
initialTimeApplies	Boolean	✓	Flag to specify whether the initialTime parameter should apply. If set to <b>FALSE</b> any values in the initialTime parameter will be ignored.
exclusionPeriod	Integer	✗	When using REPEAT subscription model, you can specify an exclusion period (in minutes) whereby after a user cancels a

			subscription they can re-enable it only after this exclusion period has passed. Maximum period = 52034400 minutes (36135 days or 99 years)
exclusionPeriodUnit	String [10]	✗	The time unit specified in exclusionPeriod. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
exclusionPeriodApplies	Boolean	✓	Flag to specify whether the exclusionPeriod parameter should apply. If set to <b>FALSE</b> any values in the exclusionPeriod parameter will be ignored.

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_ACCESSMODEL	The specified access model is invalid or not supported
INVALID_STRING_LENGTH	Parameter [PARAMNAME] exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
ACCESSMODEL_DENIED	The specified access model is not allowed
ACCESSMODEL_TIME_PERIOD_EXCEEDED	The specified time period exceeds the maximum supported time periods
ACCESSMODEL_TIME_PERIOD_LESS_THAN_MINIMUM	The specified time period is less than the minimum value supported
ACCESSMODEL_TIME_PERIOD_LESS_THAN_ONE	The specified time period is less than one
ACCESSMODEL_INITIAL_TIME_PERIOD_EXCEEDED	The specified initial time period exceeds the maximum supported time periods
ACCESSMODEL_INITIAL_TIME_PERIOD_LESS_THAN_MINIMUM	The specified initial time period is less than the minimum value supported
ACCESSMODEL_INITIAL_TIME_PERIOD	The specified initial time period is less than



LESS_THAN_ONE	one
ACCESSMODEL_EXCLUSION_PERIOD_EXCEEDED	The specified exclusion period exceeds the maximum supported time periods
ACCESSMODEL_EXCLUSION_PERIOD_LESS_THAN_MINIMUM	The specified exclusion period is less than the minimum value supported
ACCESSMODEL_EXCLUSION_PERIOD_LESS_THAN_ONE	The specified exclusion period is less than one
BANGO_NOT_PREMIUM_ENABLED	The specified Bango Number is not enabled for premium billing

## Notes

Method:	<b>UpdateAccessModelFree</b>		
Description:	Changes the access model for a Bango Number to free (non-premium).		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	bango	String [50]	✓ The Bango Number to update to FREE (non-premium) model
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_BANGO		The specified Bango Number is invalid
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_ACCESSMODEL		The specified access model is invalid or not supported
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid
	ACCESSMODEL_DENIED		The specified access model is not allowed
	BANGO_NOT_PREMIUM_ENABLED		The specified Bango Number is not enabled for premium billing

## Notes

Changing the access model to FREE will remove any pre-configured price points for this Bango Number and remove the facility to bill on this number.

Method:

## UpdateRating

Description: Updates content rating and rating scheme for a specified Bango Number

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
bango	String [50]	✓	The Bango Number to enable billing on
ratingScheme	String [20]	✓	The content rating scheme for this Bango Number. There are two possible options: <b>GLOBAL</b> <b>USA</b> See appendix for more details
rating	String [10]	✓	The specific content rating which applies to this scheme. The available rating is dependent on the ratingScheme which is being specified. The options are: For the GLOBAL scheme - <b>UNIVERSAL</b> <b>RESTRICTED</b> For the USA scheme- <b>GENERAL</b> <b>RESTRICTED</b> See appendix for more details

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_STRING_LENGTH	Parameter [PARAMNAME] exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
INVALID_RATING_SCHEME	The specified content rating scheme is invalid
INVALID_RATING	The specified content rating is invalid



## Notes

Upon creation of a Bango Number, it will automatically default to an Adult rating for all rating schemes within the Bango system. This rating will affect the ability to bill for content depending on the user's parameters such as operator, age verification status, etc.

Method:	<b>EnableCreditCardForBillingByBangoNumber</b>																																																		
Description:	Specifically allow credit card payments for this Bango Number where credit card has previously been disabled.																																																		
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to enable credit card payment method for billing on</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to enable credit card payment method for billing on																																				
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## Notes

By default, the Bango BillRank™ system will select the best payment method available to the user at the time of billing request. This may result in Credit Card being presented as an option where on-bill or PSMS methods are not currently available.

This method allows you to specifically enable the use of Credit Card as a payment method for the specified Bango Number where previously it has been disabled.

Method:	<b>DisableCreditCardForBillingByBangoNumber</b>		
Description:	Specifically deny credit card payments for this Bango Number.		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	bango	String [50]	✓ The Bango Number to disable credit card payment method for billing on
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_BANGO		The specified Bango Number is invalid
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

By default, the Bango BillRank™ system will select the best payment method available to the user at the time of billing request. This may result in Credit Card being presented as an option where on-bill or PSMS methods are not currently available.

This method allows you to specifically deny the use of Credit Card as a payment method for the specified Bango Number.

Method:

## GetBangoNumber

Description: Gets details about a specific Bango Number, including access model, price points and rating

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
bango	String [50]	✓	The Bango Number to retrieve details for

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status
name	String [100]	The name of the Bango Number
accessModel	String [15]	The access model of the Bango Number - the specified access models are: <b>PERACCESS</b> <b>MULTIACCESS</b> <b>TIMED</b> <b>REPEAT</b> <b>FREE</b>
numberOfAccesses	Integer	The number of accesses specified when number is set as MULTIACCESS access model
validTime	Integer	The period of access when number is set as TIMED or REPEAT access model
validTimeUnit	String [10]	The time unit specified in validTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
initialTime	Integer	The initial period when number is set as REPEAT access model and the initial period has been specified
initialTimeUnit	String [10]	The time unit specified in initialTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
initialTimeApplies	Boolean	Flag to specify whether the initialTime parameter should apply. If set to <b>FALSE</b> any values in the initialTime parameter can be ignored
exclusionPeriod	Integer	The exclusion period when number is

		set as REPEAT access model and the exclusion period has been specified
exclusionPeriodUnit	String [10]	The time unit specified in exclusionPeriod. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
exclusionPeriodApplies	Boolean	Flag to specify whether the exclusionPeriod parameter should apply. If set to <b>FALSE</b> any values in the exclusionPeriod parameter can be ignored.
/pricePoints/pricePoint/price	Decimal	The price point for the currency specified
/pricePoints/pricePoint/initialPrice	Decimal	The initial price for the currency specified if applicable
/pricePoints/pricePoint/initialPriceApplies	Boolean	A flag to indicate whether the initialPrice parameter should apply. If set to <b>FALSE</b> any values in the initialPrice parameter can be ignored.
/pricePoints/pricePoint/currencyIso	String [3]	The currency for this particular price point
/pricePoints/pricePoint/isBaseCurrency	Boolean	A flag to indicate whether this particular price point and currency is the default currency set for this Bango Number
/contentRatings/contentRating/ratingScheme	String [20]	The content rating scheme for this Bango Number
/contentRatings/contentRating/rating	String [10]	The content rating for the particular scheme specified
categoryId	Integer	The specific category ID mapping related to available application categories (see appendix)
applicationSize	String [10]	The size of the application specified in KB

Response Codes:

OK	Success
ACCESS_DENIED	Invalid username/password
ACCESS_DENIED	Invalid credentials. You are not authorized to call this method
ACCESS_DENIED	Request not over SSL
ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_BANGO	The specified Bango Number is invalid
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_STRING_LENGTH	Parameter [PARAMNAME] exceeds



	maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid

## Notes

There will be multiple elements output for the price points and ratings for a single Bango Number to encapsulate different currencies and price points, and multiple rating schemes.

The returned category ID matches the id value supplied for a specific category used to describe the type/genre of an application – more details can be found on category mappings in the table supplied in the appendix.

Method:

## GetBangoNumbers

Description: Gets details about all Bango Numbers, including access model, price points and rating, associated with the passed Package ID

Inputs:

username	String [50]	✓	Authentication Details Username
password	String [50]	✓	Authentication Details Password
packageId	Integer	✓	The unique identifier for the package on the Bango system

Outputs:

responseCode	String [50]	A response code indicating status of method call
responseMessage	String [255]	Textual description of request status
/bangoNumbers/bangoNumber/bango	String [50]	The Bango Number
/bangoNumbers/bangoNumber/name	String [100]	The name of the Bango Number
/bangoNumbers/bangoNumber/accessModel	String [15]	The access model of the Bango Number - the specified access models are: <b>PERACCESS</b> <b>MULTIACCESS</b> <b>TIMED</b> <b>REPEAT</b> <b>FREE</b>
/bangoNumbers/bangoNumber/numberOfAccesses	Integer	The number of accesses specified when number is set as MULTIACCESS access model
/bangoNumbers/bangoNumber/validTime	Integer	The period of access when number is set as TIMED or REPEAT access model
/bangoNumbers/bangoNumber/validTimeUnit	String [10]	The time unit specified in validTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
/bangoNumbers/bangoNumber/initialTime	Integer	The initial period when number is set as REPEAT access model and the initial period has been specified
/bangoNumbers/bangoNumber/initialTimeUnit	String [10]	The time unit specified in initialTime. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>

	/bangoNumbers/bangoNumber/ initialTimeApplies	Boolean	Flag to specify whether the initialTime parameter should apply. If set to <b>FALSE</b> any values in the initialTime parameter can be ignored
	/bangoNumbers/bangoNumber/ exclusionPeriod	Integer	The exclusion period when number is set as REPEAT access model and the exclusion period has been specified
	/bangoNumbers/bangoNumber/ exclusionPeriodUnit	String [10]	The time unit specified in exclusionPeriod. The specified time units are: <b>MINUTE</b> <b>HOUR</b> <b>DAY</b> <b>WEEK</b> <b>MONTH</b> <b>QUARTER</b> <b>YEAR</b>
	/bangoNumbers/bangoNumber/ exclusionPeriodApplies	Boolean	Flag to specify whether the exclusionPeriod parameter should apply. If set to <b>FALSE</b> any values in the exclusionPeriod parameter can be ignored.
	/bangoNumbers/bangoNumber/ /pricePoints/pricePoint/price	Decimal	The price point for the currency specified
	/bangoNumbers/bangoNumber/ /pricePoints/pricePoint/initialPrice	Decimal	The initial price for the currency specified if applicable
	/bangoNumbers/bangoNumber/ /pricePoints/pricePoint/ initialPriceApplies	Boolean	A flag to indicate whether the initialPrice parameter should apply. If set to <b>FALSE</b> any values in the initialPrice parameter can be ignored.
	/bangoNumbers/bangoNumber/ /pricePoints/pricePoint/ currencyIso	String [3]	The currency for this particular price point
	/bangoNumbers/bangoNumber/ /pricePoints/pricePoint/ isBaseCurrency	Boolean	A flag to indicate whether this particular price point and currency is the default currency set for this Bango Number
	/bangoNumbers/bangoNumber/ /contentRatings/contentRating/ ratingScheme	String [20]	The content rating scheme for this Bango Number
	/bangoNumbers/bangoNumber/ /contentRatings/contentRating/ rating	String [10]	The content rating for the particular scheme specified
	/bangoNumbers/bangoNumber/ categoryId	Integer	The specific category ID mapping related to available application categories (see appendix)
	/bangoNumbers/bangoNumber/ applicationSize	String [10]	The size of the application specified in KB
	Response Codes:	OK	
ACCESS_DENIED			Invalid username/password
ACCESS_DENIED			Invalid credentials. You are not authorized to call this method
ACCESS_DENIED			Request not over SSL

ACCESS_DENIED	Invalid client IP address
SERVICE_UNAVAILABLE	The service is currently unavailable and your request could not be processed
INTERNAL_ERROR	A problem on the server meant that the request could not be processed
INVALID_PACKAGEID	The specified Package ID is invalid
INVALID_PACKAGE_STATUS	The package is not licensed
INVALID_STRING_LENGTH	Parameter [PARAMNAME] exceeds maximum string length
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid
NO_BANGO_NUMBERS	There are no Bango Numbers associated with the supplied Package ID

## Notes

There will be multiple elements output for the price points and ratings for a single Bango Number to encapsulate different currencies and price points, and multiple rating schemes.

The returned category ID matches the id value supplied for a specific category used to describe the type/genre of an application – more details can be found on category mappings in the table supplied in the appendix.

Multiple Bango Numbers will be encapsulated within a root element of BangoNumbers, with specific number details encapsulated within an element BangoNumber.

Method:	<b>UpdateBangoNumber</b>																										
Description:	Update the title of an existing Bango Number																										
Inputs:	<table border="1"> <tr> <td>username</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Username</td> </tr> <tr> <td>password</td> <td>String [50]</td> <td>✓</td> <td>Authentication Details Password</td> </tr> <tr> <td>bango</td> <td>String [50]</td> <td>✓</td> <td>The Bango Number to update</td> </tr> <tr> <td>name</td> <td>String [100]</td> <td>✓</td> <td>The updated name of the Bango Number</td> </tr> <tr> <td>categoryId</td> <td>Integer</td> <td>✓</td> <td>The specific category ID mapping related to available application categories (see appendix)</td> </tr> <tr> <td>applicationSize</td> <td>String [10]</td> <td>✓</td> <td>The size of the application specified in KB</td> </tr> </table>			username	String [50]	✓	Authentication Details Username	password	String [50]	✓	Authentication Details Password	bango	String [50]	✓	The Bango Number to update	name	String [100]	✓	The updated name of the Bango Number	categoryId	Integer	✓	The specific category ID mapping related to available application categories (see appendix)	applicationSize	String [10]	✓	The size of the application specified in KB
username	String [50]	✓	Authentication Details Username																								
password	String [50]	✓	Authentication Details Password																								
bango	String [50]	✓	The Bango Number to update																								
name	String [100]	✓	The updated name of the Bango Number																								
categoryId	Integer	✓	The specific category ID mapping related to available application categories (see appendix)																								
applicationSize	String [10]	✓	The size of the application specified in KB																								
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INVALID_PACKAGE_STATUS	The package is not licensed																										
INVALID_STRING_LENGTH	Parameter [PARAMNAME] exceeds maximum string length																										
INVALID_PARAMETER	Parameter [PARAMNAME] is invalid																										

## Notes

Method:	<b>DeleteBangoNumber</b>		
Description:	Deletes specified Bango Number, including access model, price points and rating, along with any carrier specific configuration		
Inputs:	username	String [50]	✓ Authentication Details Username
	password	String [50]	✓ Authentication Details Password
	bango	String [50]	✓ The Bango Number to delete
Outputs:	responseCode	String [50]	A response code indicating status of method call
	responseMessage	String [255]	Textual description of request status
Response Codes:	OK		Success
	ACCESS_DENIED		Invalid username/password
	ACCESS_DENIED		Invalid credentials. You are not authorized to call this method
	ACCESS_DENIED		Request not over SSL
	ACCESS_DENIED		Invalid client IP address
	SERVICE_UNAVAILABLE		The service is currently unavailable and your request could not be processed
	INTERNAL_ERROR		A problem on the server meant that the request could not be processed
	INVALID_BANGO		The specified Bango Number is invalid
	INVALID_PACKAGEID		The specified Package ID is invalid
	INVALID_PACKAGE_STATUS		The package is not licensed
	INVALID_STRING_LENGTH		Parameter [PARAMNAME] exceeds maximum string length
	INVALID_PARAMETER		Parameter [PARAMNAME] is invalid

## Notes

Removal of a Bango Number will result in removal of any pre-configured price points, ratings and configuration. Analytics information regarding this Number will no longer be available going forward. You will be unable to recreate this Bango Number again once deleted.

## Appendix

### Currency ISO's supported and maximum price points

The table below lists the currency ISO codes currently supported for setting price points:

<b>currencyIso</b>	<b>currencyName</b>
AUD	Australian dollars
CAD	Canadian dollars
CHF	Swiss Francs
COP	Colombian Pesos
DKK	Danish krone
EGP	Egyptian pound
EUR	Euros
GBP	Pounds sterling
IDR	Indonesian Rupiah
MXN	Mexican Pesos
MYR	Malaysian ringgits
NOK	Norwegian krone
NZD	New Zealand dollars
PHP	Philippine Peso
QAR	Qatar riyal
SEK	Swedish Kronor
SGD	Singapore dollars
THB	Thai baht
USD	US dollars
ZAR	South African rand

### Set your pricing:

Currency	Max. price you can set	Content price
Pounds sterling	£20.00	£ <input type="text" value="0"/> , <input type="text" value="00"/>
US dollars	\$30.00	\$ <input type="text" value="0"/> , <input type="text" value="00"/>
Euros	25,00 EUR	<input type="text" value="0"/> , <input type="text" value="00"/> EUR
Danish krone	kr110,00 DKK	kr <input type="text" value="0"/> , <input type="text" value="00"/> DKK
Norwegian krone	kr112,00 NOK	kr <input type="text" value="0"/> , <input type="text" value="00"/> NOK
Swedish Kronor	140,00 Kr SEK	<input type="text" value="0"/> , <input type="text" value="00"/> Kr SEK
Malaysian ringgits	R65,00	R <input type="text" value="0"/> , <input type="text" value="00"/>
Swiss Francs	20.00 CHF	<input type="text" value="0"/> . <input type="text" value="00"/> CHF
Australian dollars	\$25.00 AUD	\$ <input type="text" value="0"/> . <input type="text" value="00"/> AUD
Singapore dollars	S\$30.00	S\$ <input type="text" value="0"/> . <input type="text" value="00"/>
Thai baht	680.00 Baht	<input type="text" value="0"/> . <input type="text" value="00"/> Baht
South African rand	R 150.00	R <input type="text" value="0"/> . <input type="text" value="00"/>
Canadian dollars	\$30.00	\$ <input type="text" value="0"/> , <input type="text" value="00"/>
New Zealand dollars	\$20.00NZD	\$ <input type="text" value="0"/> , <input type="text" value="00"/> NZD
Indonesian Rupiah	Rp.20000.00	Rp. <input type="text" value="0"/> . <input type="text" value="00"/>
Colombian Pesos	COL\$18435.00	COL\$ <input type="text" value="0"/> . <input type="text" value="00"/>
Mexican Pesos	\$420.00	\$ <input type="text" value="0"/> . <input type="text" value="00"/>
Egyptian pound	200.00LE	<input type="text" value="0"/> . <input type="text" value="00"/> LE
Qatar riyal	QR1820.00	QR <input type="text" value="0"/> . <input type="text" value="00"/>
Philippine Peso	1355.00PHP	<input type="text" value="0"/> . <input type="text" value="00"/> PHP

The table above shows the default maximum price points for a package, but these can also be overridden by Bango on any package or group of packages. You should use the methods **GetMaximumPricePoint** or





**GetMaximumPricePoints** to discover what the maximum content price you can set for a specific Bango Number and currency ISO.

## Country ISO's supported

The following table lists the currently supported country ISO's within the Bango system:

AFG	Afghanistan
ALA	Åland Islands
ALB	Albania
DZA	Algeria
ASM	American Samoa
AND	Andorra
AGO	Angola
AIA	Anguilla
ATA	Antarctica
ATG	Antigua and Barbuda
ARG	Argentina
ARM	Armenia
ABW	Aruba
AUS	Australia
AUT	Austria
AZE	Azerbaijan
BHS	Bahamas
BHR	Bahrain
BGD	Bangladesh
BRB	Barbados
BLR	Belarus
BEL	Belgium
BLZ	Belize
BEN	Benin
BMU	Bermuda
BTN	Bhutan
BOL	Bolivia
BES	Bonaire, Saint Eustatius and Saba
BIH	Bosnia and Herzegovina
BWA	Botswana
BVT	Bouvet Island
BRA	Brazil
IOT	British Indian Ocean Territory
BRN	Brunei Darussalam
BGR	Bulgaria
BFA	Burkina Faso
BDI	Burundi
KHM	Cambodia
CMR	Cameroon
CAN	Canada
CPV	Cape Verde
CYM	Cayman Islands
CAF	Central African Republic
TCD	Chad
CHL	Chile
CHN	China
CXR	Christmas Island
CCK	Cocos (Keeling) Islands
COL	Colombia
COM	Comoros
COG	Congo
COD	Congo, Democratic Republic
COK	Cook Islands
CRI	Costa Rica
CIV	Côte d'Ivoire
HRV	Croatia
CUB	Cuba
CUW	Curaçao
CYP	Cyprus
CZE	Czech Republic
DNK	Denmark

DJI	Djibouti
DMA	Dominica
DOM	Dominican Republic
ECU	Ecuador
EGY	Egypt
SLV	El Salvador
GNQ	Equatorial Guinea
ERI	Eritrea
EST	Estonia
ETH	Ethiopia
FLK	Falkland Islands (Malvinas)
FRO	Faroe Islands
FJI	Fiji
FIN	Finland
FRA	France
GUF	French Guiana
PYF	French Polynesia
ATF	French Southern Territories
GAB	Gabon
GMB	Gambia
GEO	Georgia
DEU	Germany
GHA	Ghana
GIB	Gibraltar
GRC	Greece
GRL	Greenland
GRD	Grenada
GLP	Guadeloupe
GUM	Guam
GTM	Guatemala
GGY	Guernsey
GIN	Guinea
GNB	Guinea-Bissau
GUY	Guyana
HTI	Haiti
HMD	Heard and McDonald Islands
VAT	Holy See (Vatican City State)
HND	Honduras
HKG	Hong Kong
HUN	Hungary
ISL	Iceland
IND	India
IDN	Indonesia
IRN	Iran, Islamic Republic of
IRQ	Iraq
IRL	Ireland
IMN	Isle of Man
ISR	Israel
ITA	Italy
JAM	Jamaica
JPN	Japan
JEY	Jersey
JOR	Jordan
KAZ	Kazakhstan
KEN	Kenya
KIR	Kiribati
PRK	Korea, Democratic People's Rep
KOR	Korea, Republic of
KOS	Kosovo
KWT	Kuwait
KGZ	Kyrgyzstan
LAO	Lao People's Democratic Rep
LVA	Latvia
LBN	Lebanon
LSO	Lesotho
LBR	Liberia
LBY	Libyan Arab Jamahiriya
LIE	Liechtenstein

LTU	Lithuania
LUX	Luxembourg
MAC	Macao
MKD	Macedonia, Former Yugoslav Rep
MDG	Madagascar
MWI	Malawi
MYS	Malaysia
MDV	Maldives
MLI	Mali
MLT	Malta
MHL	Marshall Islands
MTQ	Martinique
MRT	Mauritania
MUS	Mauritius
MYT	Mayotte
MEX	Mexico
FSM	Micronesia, Federated States of
MDA	Moldova, Republic of
MCO	Monaco
MNG	Mongolia
MNE	Montenegro
MSR	Montserrat
MAR	Morocco
MOZ	Mozambique
MMR	Myanmar
NAM	Namibia
NRU	Nauru
NPL	Nepal
NLD	Netherlands
NCL	New Caledonia
NZL	New Zealand
NIC	Nicaragua
NER	Niger
NGA	Nigeria
NIU	Niue
NFK	Norfolk Island
MNP	Northern Mariana Islands
NOR	Norway
OMN	Oman
PAK	Pakistan
PLW	Palau
PSE	Palestinian Territory, Occupied
PAN	Panama
PNG	Papua New Guinea
PRY	Paraguay
PER	Peru
PHL	Philippines
PCN	Pitcairn
POL	Poland
PRT	Portugal
PRI	Puerto Rico
QAT	Qatar
REU	Réunion
ROU	Romania
RUS	Russian Federation
RWA	Rwanda
BLM	Saint Barthélemy
SHN	Saint Helena
KNA	Saint Kitts and Nevis
LCA	Saint Lucia
MAF	Saint Martin
SPM	Saint Pierre and Miquelon
VCT	Saint Vincent and the Grenadines
WSM	Samoa
SMR	San Marino
STP	Sao Tome and Principe
SAU	Saudi Arabia
SEN	Senegal

SRB	Serbia
SCG	Serbia and Montenegro
SYC	Seychelles
SLE	Sierra Leone
SGP	Singapore
SXM	Sint Maarten (Dutch part)
SVK	Slovakia
SVN	Slovenia
SLB	Solomon Islands
SOM	Somalia
ZAF	South Africa
SGS	South Georgia and the South Sandwich Islands
SSD	South Sudan
ESP	Spain
LKA	Sri Lanka
SDN	Sudan
SUR	Suriname
SJM	Svalbard and Jan Mayen
SWZ	Swaziland
SWE	Sweden
CHE	Switzerland
SYR	Syrian Arab Republic
TWN	Taiwan, Province of China
TJK	Tajikistan
TZA	Tanzania, United Republic of
THA	Thailand
TLS	Timor-Leste
TGO	Togo
TKL	Tokelau
TON	Tonga
TTO	Trinidad and Tobago
TUN	Tunisia
TUR	Turkey
TKM	Turkmenistan
TCA	Turks and Caicos Islands
TUV	Tuvalu
UGA	Uganda
UKR	Ukraine
ARE	United Arab Emirates
GBR	United Kingdom
USA	United States
UMI	United States Minor Outlying Islands
URY	Uruguay
UZB	Uzbekistan
VUT	Vanuatu
VEN	Venezuela, Bolivarian Republic of
VNM	Vietnam
VGB	Virgin Islands, British
VIR	Virgin Islands, U.S.
WLF	Wallis and Futuna
ESH	Western Sahara
YEM	Yemen
ZMB	Zambia
ZWE	Zimbabwe



## Access models and parameters

The methods within these services support 5 access models. These are:

- PERACCESS** - Per Access payment model
- MULTIACCESS** - Multi Access payment model
- TIMED** - Timed payment model
- REPEAT** - Repeat (managed subscription) payment model
- FREE** - No billing is enabled for this Bango Number

### Per Access model:

The per access model allows a customer to specify a billing action is to be processed each time an "access" is specified against a Bango Number.

When per access is specified, the only other required parameter is price.

To specify usage of a Per Access model, you should use the `MakePremiumPerAccess` and `UpdateAccessModelPerAccess` methods.

### Multi Access model:

The multi access model allows a customer to specify multiple accesses per end user to content after a successful billing action before another billing action is requested; with a decrementing counter used each time a request is made by an end user. Once the `numberOfAccesses` value has been exceeded, a billing action will again be processed. If a billing request is made whilst there are remaining accesses on the end user's counter, no billing request will be made.

When multi access is specified, you must specify the `numberOfAccesses` and price parameters.

If the `numberOfAccesses` parameter is set to 1, the model will automatically revert to Per Access.

To specify usage of a Multi Access model, you should use the `MakePremiumMultiAccess` and `UpdateAccessModelMultiAccess` methods.

### Timed model:

The timed access model allows a customer to specify a period (in minutes) per end user after a successful billing action before another billing action is requested. If a request is made within the specified period, no billing request will be made.

When timed access is specified, you must specify the `validTime` and price parameters.

To specify usage of a Timed Access model, you should use the `MakePremiumTimed` and `UpdateAccessModelTimed` methods.

### Repeat model:

The repeat access model allows customers to instantiate managed subscription services utilising the Bango Safe Subscriptions system.



When repeat access is specified, you are required to specify the validTime and price parameters, and a number of parameters can be (optionally) passed, however you must set the applicable flags to ensure values passed in parameters are used.

A validTime parameter is always required, and dictates the renewal frequency of the subscription once renewals are outside of an initial period (if specified).

An initialTime parameter is optional, and can be used when allowing such things as introductory offers which last a period which is different to the normal subscription renewal period (such as allowing 2 weeks offer before reverting to a monthly subscription). If you wish to use the initialTime parameter, you must set the initialTimeApplies parameter to TRUE for the value to be used.

An exclusionPeriod parameter is optional, and can be used to enforce a period whereby once a subscription is cancelled it cannot be restarted and benefit for any introductory offers which may be in force. If you wish to use the exclusionPeriod parameter, you must set the exclusionPeriodApplies parameter to TRUE for the value to be used.

An initial price is optional, and can be set either independently or in conjunction with an initial period to offer introductory offers such as a reduced rate for 2 weeks on a normal subscription (for example, pay \$2 for 2 weeks and then \$10 per month after the initial period). If you wish to use the initialPrice parameter, you must set the initialPriceApplies parameter to TRUE for the value to be used.

To specify usage of a Repeat Access model, you should use the MakePremiumRepeat and UpdateAccessModelRepeat methods.

The currencyIso parameter is required in all cases as it specifies the currency this price point should be billed in – this currency can be any of the supported currencies, however, it will become the default currency used for pricing and billing for that Bango Number (including any required currency conversions where a discreet price point for another currency has not been specified).

**Free model:**

No billing is enabled for this Bango Number.

Parameters used in access models are summarised in the table below:

Parameters	ACCESS MODEL			
	PERACCESS	MULTIACCESS	TIMED	REPEAT
<b>bango</b>	REQUIRED	REQUIRED	REQUIRED	REQUIRED
<b>accessModel</b>	REQUIRED	REQUIRED	REQUIRED	REQUIRED
<b>numberOfAccesses</b>	NOT REQUIRED	REQUIRED	NOTREQUIRED	NOTREQUIRED
<b>validTime</b>	NOTREQUIRED	NOTREQUIRED	REQUIRED	REQUIRED
<b>initialTime</b>	NOTREQUIRED	NOTREQUIRED	NOTREQUIRED	OPTIONAL
<b>initialTimeApplies</b>	NOTREQUIRED	NOTREQUIRED	NOTREQUIRED	OPTIONAL
<b>exclusionPeriod</b>	NOTREQUIRED	NOTREQUIRED	NOTREQUIRED	OPTIONAL
<b>exclusionPeriodApplies</b>	NOTREQUIRED	NOTREQUIRED	NOTREQUIRED	OPTIONAL
<b>price</b>	REQUIRED	REQUIRED	REQUIRED	REQUIRED
<b>initialPrice</b>	NOTREQUIRED	NOTREQUIRED	NOTREQUIRED	OPTIONAL
<b>initialPriceApplies</b>	NOTREQUIRED	NOTREQUIRED	NOTREQUIRED	OPTIONAL
<b>currencyIso</b>	REQUIRED	REQUIRED	REQUIRED	REQUIRED



## Content ratings

To specify content ratings, it is necessary to supply a rating scheme and a specific content rating for that scheme.

Bango currently supports two rating schemes: Global and USA. Within these rating schemes, there is the option to specify a specific content rating which controls access to the use of the Bango Number for billing depending on factors such as the user's location, operator and age verification status.

For access by customers in the USA, the **USA** rating scheme should be specified.

Within the **USA** rating scheme, you can rate content as either **GENERAL** or **RESTRICTED**.

**GENERAL** content or pages must be acceptable to a general audience of all ages. Use this setting only if your content does not contain sex or drug references, nudity or sexual references, violence or gambling.

**RESTRICTED** content or pages may be potentially unsuitable for minors. If your content contains sex or drug references, nudity or sexual references, violence or gambling then use this setting.

For access by customers in "Rest of World", the **GLOBAL** rating scheme should be specified.

Within the **GLOBAL** rating scheme, you can rate content either as **UNIVERSAL** or **RESTRICTED**.

**UNIVERSAL** content must be acceptable to a universal audience of all ages. Use this setting only if your content does not contain sex or drug references, full-frontal nudity, violence or gambling. Topless glamour (swimsuit) content is permitted.

**RESTRICTED** content or pages may be potentially unsuitable for minors. If your content contains sex or drug references, full-frontal nudity or explicit sexual references, violence or gambling then use this setting.

Whilst the rating schemes are exclusive, both schemes should be updated as appropriate. Due to tighter restrictions within the USA rating scheme, it is possible to rate content globally as **UNIVERSAL**, but have that content remain rated as **RESTRICTED** for the USA.





## Category IDs

When creating a new Bango Number, carriers often require further specific configuration settings such as the type of product, the category or genre, or some other description which may be used within their internal systems or for display on an end user's bill when purchasing content.

The following table documents the currently supported category ids within the Bango system.

When a new Number is created using the CreateBangoNumber method, it should also pass one of the supported category IDs. We then use this ID to lookup the value, or the parent value to determine the necessary descriptor to apply on a per-carrier basis.

Should a category be passed which does not exist in the table below, we will still be able to assign the category ID, however, we will revert to the Bango system defaults to determine the values passed to each carrier on subsequent purchases.

Category ID	Category Name/Description	Parent ID
1	Games	0
18	Cards	1
20	Sports	1
21	Board Games	1
94	Combat	1
95	Movie & TV Themes	1
96	Space	1
97	Strategy	1
99	Puzzles	1
113	Action	1
114	Arcade	1
2	Utilities	0
23	Clocks	2
27	Voice Dictation	2
44	Phone Services	2
56	Utilities	2
63	Calculators	2
4	Maps & Navigation	0
49	Local Search	4
84	Maps & Navigation	4
7	Entertainment	0
33	Personalize	7
34	Gadgets	7
35	Food & Drink	7
36	Restaurant Guides	7
50	Tickets & Events	7
8	Music & Audio	0
59	MP3 & Media Players	8
60	Music Services	8
9	News	0
43	News & Information	9
48	Magazines	9

10	Finance	0
64	Financial Services	10
69	Expense Tracking	10
70	Stocks & Investment	10
71	Personal Banking	10
73	Accounting	10
12	Business	0
72	Time Tracking	12
74	Business Tools	12
75	Data Collection	12
79	Sales & Service	12
100	Real Estate	12
13	Reference & eBooks	0
38	References	13
39	eBooks	13
55	Dictionaries	13
68	Religion	13
77	Law	13
86	Medical	13
87	Textbooks	13
15	Sports & Recreation	0
53	News & Scores	15
58	Other Sports	15
88	Golf	15
89	Football & Soccer	15
90	Baseball	15
91	Outdoor Recreation	15
16	Travel	0
54	Translation	16
80	Guides	16
82	Planning	16
40	Photo & Video	0
41	Video & TV	40
42	Photography	40
47	Sharing	40
45	Shopping	0
46	Shopping Tools	45
101	Online Shopping	45
51	IM & Social Networking	0
52	Blogs	51
57	Social Networking	51
81	Instant Messaging	51
61	Health & Wellness	0
62	Healthcare Services	61
78	Medical Guides	61
92	Health & Diet	61
93	Fitness	61
65	Productivity	0
66	Organization	65

67	Productivity	65
76	Document Tools	65
83	Search	65
85	Weather	0
102	Test Center	0
103	Themes	0
104	Movies & TV	103
106	People	103
107	Sports Themes	103
108	Nature	103
109	Abstract	103
110	Holiday	103
111	Technology	103
112	Transportation	103
115	Education	0
10000	Music	0
20000	Video	0