



Unified Notification Gateway (UNG) API Guide

Overview

Introduction

This document describes the data model and API of the Cisco Unified Notification Gateway (UNG) service.

Document Version

This is the first formal release of this document.

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UNG API Conventions

Request Headers

The following headers apply in the same manner to all UNG requests.

Header	Description
[Content-Type]	The content type that the client is prepared to accept in the response. The default value is application/xml.

Request URI

http://{WebServerIP};{PORT}/service/ung?method={methodName}

Provider Management

Provider Provision

Request URI

HTTP Method	methodName
POST	provisionProvider

Request Parameters

Parameter	Type	Mandatory	Description
arg0	NotificationProviderMetadata	Yes	The provider's metadata

NotificationProviderMetadata Type

Parameter	Type	Mandatory	Description
appId	String	Yes	The provider's appId
certificate	String	Yes	The provider's certification provisioned by Apple; it must be encoded by base64
passwd	String	Yes	The password relevant to the certificate
type	String	Yes	The type of this application: <ol style="list-style-type: none"> 1. iOS 2. Android (not supported)

Request Example

```
<provisionProvider>
<arg0>
<appId>oms</appId>
<certification>PTbeq0BAgF7npCPgWhiAIBAQ==</certification>
<passwd>123456</passwd>
<type>iOS</type>
</arg0>
</provisionProvider>
```

Response Example

```
<provisionProviderResponse/>
```

Get a Provider

Request URI

HTTP Method	methodName
POST	getNotificationProvider

Request Parameters

Parameter	Type	Mandatory	Description
arg0	String	Yes	The provider's appId

Response Parameters

Parameter	Type	Mandatory	Description
return	NotificationProviderMetadata	Yes	The provider's metadata

NotificationProviderMetadata Type

Parameter	Type	Mandatory	Description
appId	String	Yes	The provider's appId
passwd	String	Yes	The password relevant to the certificate
type	String	Yes	The type of this application: 1. iOS

Request Example

```
<getNotificationProvider><arg0>oms</arg0></getNotificationProvider>
```

Response Example

```
<getNotificationProviderResponse>
<return>
<appId>oms</appId>
<passwd>123456</passwd>
<type>iOS</type>
</return>
</getNotificationProviderResponse>
```

List Providers

Request URI

HTTP Method	methodName
POST	getNotificationProviderForPage

Request Parameters

Parameter	Type	Mandatory	Description
arg0	int	Yes	Current page
arg1	int	Yes	Page size

Response Parameters

Parameter	Type	Mandatory	Description
return	ProviderPagination	Yes	A list of providers

ProviderPagination Type

Parameter	Type	Mandatory	Description
providerList	NotificationProviderMetadata	Yes	The provider's metadata Note: This can occur multiple times.
totalNum	int	Yes	The number of providers

NotificationProviderMetadata Type

Parameter	Type	Mandatory	Description
appId	String	Yes	The provider's appId
passwd	String	Yes	The password relevant to the certificate
type	String	Yes	The type of this application: 1. iOS

Provider Management

Request Example

```
<getNotificationProviderForPage>  
<arg0>1</arg0>  
<arg1>25</arg1>  
</getNotificationProviderForPage>
```

Response Example

```
<getNotificationProviderForPageResponse>  
<return>  
<providerList>  
<appId>eas</appId>  
<passwd>123456</passwd>  
<type>iOS</type>  
</providerList>  
<providerList>  
<appId>oms</appId>  
<passwd>123456</passwd>  
<type>iOS</type>  
</providerList>  
<totalNum>2</totalNum>  
</return>  
</getNotificationProviderForPageResponse>
```

Update Provider

Request URI

HTTP Method	methodName
POST	modifyProvider

Request Parameters

Parameter	Type	Mandatory	Description
arg0	NotificationProviderMetadata	Yes	The provider's new metadata

Parameter	Type	Mandatory	Description
appId	String	Yes	The appId of the target provider
certificate	String	No	The provider's new certification provisioned by Apple; it must be encoded by base64.
passwd	String	No	The new password relevant to the certificate

Request Example

```
<modifyProvider>
<arg0>
<appId>oms</appId>
<certification>PTbeq0BAgF7npCPgWhiAIBAQ==</certification>
<passwd>123456</passwd>
</arg0>
</modifyProvider>
```

Response Example

```
<modifyProviderResponse/>
```

Remove Provider

Request URI

HTTP Method	methodName
POST	removeProvider

Request Parameters

Parameter	Type	Mandatory	Description
arg0	String	Yes	The appId of the provider that will be removed

Request Example

```
<removeProvider><arg0>eas</arg0></removeProvider>
```

Response Example

```
<removeProviderResponse/>
```


Preference Management

Common Types Definition

PreferenceMetadata

Parameter	Type	Mandatory	Description
name	String	Yes	The preference's unique name
element	String	No	The root element name of the payload of the pubsub message
namespace	String	Yes	The namespace of the payload of the root element of the pubsub message
payload	Map	Yes	<p>A map contains all the properties used to customize the notification, such as the notification title, sound, and so on. The properties' names are fixed, as follows:</p> <ol style="list-style-type: none"> 1. message -- The fixed notification title 2. sound -- The name of the sound file played when the notification is received on a device 3. xpath -- The xpath string used to parse the notification title from the payload of pubsub message

Provision Preference

Request URI

HTTP Method **methodName**
 POST provisionPreference

Request Parameters

Parameter	Type	Mandatory	Description
arg0	PreferenceMetadata	Yes	The preference's metadata
arg1	String	Yes	The appId of the provider to which this preference belongs

Request Example

```
<provisionPreference>
  <arg0>
    <element>oms</element>
    <name>oms_pre</name>
    <namespace>http://cisco.com/oms/1.0.0</namespace>
    <payload>
      <entry><key>message</key><value>You have an incoming
      message!</value></entry>
      <entry><key>sound</key><value>followme.wav</value></entry>
      <entry><key>xpath</key><value>/oms/title</value></entry>
    </payload>
  </arg0>
  <arg1>eas</arg1>
</provisionPreference>
```

Response Example

```
<provisionPreferenceResponse/>
```

Get a Preference

Request URI

HTTP Method	methodName
POST	getProviderPreference

Request Parameters

Parameter	Type	Mandatory	Description
arg0	String	Yes	The preference's unique name

Response Parameters

Parameter	Type	Mandatory	Description
return	PreferenceMetadata	Yes	The preference's metadata

Request Example

```
<getProviderPreference><arg0>oms_pre</arg0></getProviderPreference>
```

Response Example

```
<getProviderPreferenceResponse>
<return>
<element>oms</element>
<name>oms_pre</name>
<namespace>http://cisco.com/oms/1.0.0</namespace>
<payload>
<entry><key>message</key><value>You have an incoming
message!</value></entry>
<entry><key>sound</key><value>followme.wav</value></entry>
<entry><key>xpath</key><value>/oms/title</value></entry>
</payload>
</return>
</getProviderPreferenceResponse>
```

Update Preference

Request URI

HTTP Method	methodName
POST	modifyPreference

Request Parameters

Parameter	Type	Mandatory	Description
arg0	PreferenceMetadata	Yes	The preference's metadata

Request Example

```
<modifyPreference>
<arg0>
<element>oms</element>
<name>oms_pre</name>
<namespace>http://cisco.com/oms/1.0.0</namespace>
<payload>
<entry><key>message</key><value>You have an incoming
message!</value></entry>
<entry><key>sound</key><value>followme.wav</value></entry>
<entry><key>xpath</key><value>/oms/title</value></entry>
</payload>
</arg0>
</modifyPreference>
```

Response Example

```
<modifyPreferenceResponse/>
```

Remove Preference

Request URI

HTTP Method	methodName
-------------	------------

POST	modifyPreference
------	------------------

Request Parameters

Parameter	Type	Mandatory	Description
arg0	String	Yes	The preference's unique name

Request Example

```
<removePreference><arg0>oms_pre</arg0></removePreference>
```

Response Example

```
<removePreferenceResponse/>
```

List Preferences

Request URI

Type: @POST

http://{WebServerIP}:{PORT}/service/{OMSService}?method=getHistoricMessageDetail

Request Parameters

Parameter	Type	Mandatory	Description
arg0	String	Yes	The unique name of the provider to which the preferences belong
arg1	Int	Yes	Current page
arg2	Int	Yes	The page size

Response Parameters

Parameter	Type	Mandatory	Description
return	PreferencePagination	Yes	A list of preferences

PreferencePagination Type

Parameter	Type	Mandatory	Description
preferenceList	PreferenceMetadata	Yes	The preference's metadata Note: It can occur multiple times.
totalNum	int	Yes	The number of preferences

Request Example

```
<getProviderPreferenceForPage>
<arg0>eas</arg0>
<arg1>1</arg1>
<arg2>25</arg2>
</getProviderPreferenceForPage>
```

Response Example

```
<getProviderPreferenceForPageResponse>
<return>
<preferenceList>
<name>oms_pre</name>
<namespace>http://cisco.com/oms/1.0.0</namespace>
<payload>
<entry><key>message</key><value>You have an incoming
message!</value></entry>
<entry><key>sound</key><value>followme.wav</value></entry>
<entry><key>xpath</key><value>/oms/title</value></entry>
</payload>
</preferenceList>
<totalNum>1</totalNum>
</return>
</getProviderPreferenceForPageResponse>
```

Application Management

Application Registration

Request URI

HTTP Method	methodName
POST	register

Request Parameters

Parameter	Type	Mandatory	Description
arg0	ApplicationMetadata	Yes	The application's metadata.

NotificationProviderMetadata Type

Parameter	Type	Mandatory	Description
id	String	Yes	The appid of the provider from where the application will receive the notifications
jid	String	Yes	The jid relevant to this application
devToken	String	Yes	The token of this device
devType	String	Yes	The type of this application: 1. iOS

Request Example

```
<register>
<arg0>
<id>oms</id>
<jid>omsclient@client.cisco.com/ipad</jid>
<devToken>fda3afdak3l==</devToken>
<devType>iOS</devType>
</arg0>
</register>
```

Response Example

```
<registerResponse/>
```


Application Deregistration

Request URI

HTTP Method	methodName
POST	deRegister

Request Parameters

Parameter	Type	Mandatory	Description
arg0	ApplicationMetadata	Yes	The application's metadata.

NotificationProviderMetadata Type

Parameter	Type	Mandatory	Description
id	String	Yes	The appid of the provider from where the application will receive the notifications
jid	String	Yes	The jid relevant to this application
devToken	String	Yes	The token of this device
devType	String	Yes	The type of this application: 1. iOS

Request Example

```
<deRegister>
<arg0>
<id>oms</id>
<jid>omsclient@client.cisco.com/ipad</jid>
<devToken>fda3afdak3l==</devToken>
<devType>iOS</devType>
</arg0>
</deRegister>
```

Response Example

```
<deRegisterResponse/>
```

Publish Notification

Publish Notification

Request URI

HTTP Method	methodName
POST	onMessage

Request Parameters

Parameter	Type	Mandatory	Description
arg0	NotificationMessage	Yes	The original message with the message payload and the destination jid

NotificationMessage Type

Parameter	Type	Mandatory	Description
message	String	Yes	The original message's payload Note: the payload should be xml-escaped.
to	String	Yes	The destination jid

Request Example

```
<onMessage>
<arg0>
<message>xml escaped payload</message>
<to>omsclient@client.cisco.com/ipad</to>
</arg0>
</onMessage>
```

Response Example

```
<onMessageResponse/>
```


For Information

If You Have Questions

If you have technical questions, contact Cisco Services for assistance. Follow the menu options to speak with a service engineer.



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