Singtel XCAP Document

# Terminology and convention

# XCAP interface target

Provide ontact-lists XML operation

## document operator

new document

get document

delete document

## document node operator

get document node

add document node

merge document node

delete document node

## document node attribute operator

# contact-lists interface description

## put document

request URL:

PUT http://im.singtelpoc.com/xcap-root/contact-lists/users/userName/index

request parameters

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **desc** |
| userName | String | Must unique |

Example:

username is Jason ,URL example:

http://im.singtelpoc.com/xcap-root/contact-lists/users/ Jason /index

Put body contact an friend &friend group document , example:

|  |
| --- |
| <?xml version=*"1.0"* encoding=*"UTF-8"*?>  <contact-lists xmlns=*"contact-lists"*  xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*  xsi:schemaLocation=*"contact-lists file:///.../contact-list-1.xsd"*>  <contact contactId=*"13823322278"*>  <nickname>Bill Doe</nickname>  </contact>  <contact contactId=*"13823322271"*>  <nickname>Bill Doe</nickname>  </contact>  <list listId=*"friends@facebook"*>  <contact contactId=*"13530039954"*>  <nickname>Joe Smith</nickname>  </contact>  <contact contactId=*"8613530039954"*>  <nickname>Nancy Gross</nickname>  </contact>  </list>  <list listId=*"close-friends@facebook"*>  <contact contactId=*"joe"*>  <nickname>Joe Smith</nickname>  </contact>  <contact contactId=*"cliff"*>  <nickname>cliff Gross</nickname>  </contact>  <contact contactId=*"lily"*>  <nickname>Nancy Gross</nickname>  </contact>  </list>  <list listId=*"close-friends@Twitter"*></list>  </contact-lists> |

Xml node desc:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Node name | Parent node | Type | desc | Node attribute | Attribute value & constraint |
| contact-lists |  |  | Root node | Xmlns | *contact-lists* |
| xmlns:xsi |  |
| xsi:schemaLocation |  |
| contact | contact-lists or list |  |  | contactId | Msisdn or user account, unique and required |
| list | contact-lists |  |  | listId | unique and required, The format of the  recommended is groupName@domain |
| name | contact | string |  |  |  |

response result

response struts code : 200

## Get document

request URL:

GET http://im.singtelpoc.com/xcap-root/contact-lists/users/userName/index

request parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **desc** |
| userName | String | Must unique |

Example:

username is Jason ,URL example:

http://im.singtelpoc.com/xcap-root/contact-lists/users/ Jason /index

response result

the same as put document.

## delete document

request URL

DELETE http://im.singtelpoc.com/xcap-root/contact-lists/users/userName/index

Parameter as same as GET operation Parameter

response result

if successful, response struts code : 200

## put document node

### add list node

request URL

PUT

409 Conflict

### add contact node

### modify list node

### modify contact node

### modify name node

## get document node

### get contact-lists node

the same as get document.

### get list node

#### get ‘list’ node by index

request URL:

GET http://im.singtelpoc.com/xcap-root/contact-lists/users/userName/index /~~/ contact-lists /list[1]

#### get ’ list’ node by listId

request URL:

GET http://im.singtelpoc.com/xcap-root/contact-lists/users/userName/index /~~ / contact-lists /list[@name="close-friends"]

### get contact node

#### get ’ list’ node by index

GET http://im.singtelpoc.com/xcap-root/contact-lists/users/userName/index /~~ / contact-lists /list[@name="close-friends"]/contact[1]

#### get ’ list’ node by listId

http://im.singtelpoc.com/xcap-root/contact-lists/users/userName/index /~~ / contact-lists /list[@name="close-friends"]/ contact [@contact Id="aa"]

### get name node

## delete document node

### delete contact-lists node

### delete list node

### delete contact node

### delete name node

# document schema

|  |
| --- |
| <?xml version=*"1.0"* encoding=*"UTF-8"*?>  <xs:schema targetNamespace=*"contact-lists"* xmlns=*"contact-lists"*  xmlns:xs=*"http://www.w3.org/2001/XMLSchema"*>  <xs:element name=*"contact-lists"*>  <xs:complexType>  <xs:sequence>  <xs:element ref=*"contact"* maxOccurs=*"unbounded"* minOccurs=*"0"*/>  <xs:element ref=*"list"* maxOccurs=*"unbounded"* minOccurs=*"0"*/>  </xs:sequence>  </xs:complexType>  </xs:element>  <xs:element name=*"list"*>  <xs:complexType>  <xs:sequence>  <xs:element ref=*"contact"* maxOccurs=*"unbounded"*  minOccurs=*"0"* />  </xs:sequence>  <xs:attribute name=*"listId"* use=*"required"*>  <xs:simpleType>  <xs:restriction base=*"xs:string"*></xs:restriction>  </xs:simpleType>  </xs:attribute>  </xs:complexType>  </xs:element>  <xs:element name=*"contact"*>  <xs:complexType>  <xs:sequence>  <xs:element ref=*"nickname"* maxOccurs=*"1"* minOccurs=*"1"*/>  </xs:sequence>  <xs:attribute name=*"contactId"* use=*"required"*>  <xs:simpleType>  <xs:restriction base=*"xs:string"*></xs:restriction>  </xs:simpleType>  </xs:attribute>  </xs:complexType>  </xs:element>  <xs:element name=*"nickname"*>  <xs:simpleType>  <xs:restriction base=*"xs:string"*></xs:restriction>  </xs:simpleType>  </xs:element>  </xs:schema> |

# authentication & authority

HTTP Basic Auth

Use token as username , password is no

# Reference

Openxcap: <http://openxcap.org/>

xcap main protocol : <http://www.ietf.org/rfc/rfc4825.txt>