

FUJITSU Cloud Service K5
API User Guide

Version 1.1

FUJITSU LIMITED

Preface

Purpose of This Document

This guide describes preparation of the environment for services, which are used with API (Application Programming Interface) provided by the FUJITSU Cloud Service K5 (hereafter K5). The guide explains how to execute 'User management API'. The guide illustrates the points with execution examples.

The execution environment for the examples is :

-Cent OS 6.5

* Please be noted that this is just an environment on which our execution examples worked.

Please use the script examples in accordance with your execution environment.

Readers of This Guide

This guide assumes the API executor already has a K5 user account setup.

The following knowledge is prerequisite for executing this API:

- Web service basic knowledge
- Unix OS basic knowledge

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Document History

Ver.	Date	Edited places	Description
1.1	Dec.22, 2016	1.1 Create shell script Chapter2 User management API 2.5 Update user authentication information	Modifications corresponding to the new function

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Chapter 1 – Prepare Execution Environment

Topics:

- Create shell script
- Get access token

1.1 Create shell script

An access token is required for API authentication and execution. To obtain the access token, first create a shell script called "get_token.sh".

There are 2 options for the user authentication method;

- (1) Password Authentication,
- (2) Certificate + Password Authentication

When you choose the '(2) Certificate + Password Authentication', some additional contents to the shell script and preparation for the client certificate are required.

In this section, the following explanations are based on '(1) Password Authentication'. To indicate the additional contents for '(2) Certificate + Password Authentication', the corresponding parts are surrounded with broken-line rectangles.

get_token.sh

```
#!/bin/bash

# K5 account information
CONTRACT_NUMBER=<K5 Contract number>
USER_NAME=<K5 User name>
USER_PW=<K5 Password>

# URI
TOKEN=https://auth-api.jp-east-1.paas.cloud.global.fujitsu.com/API/paas/auth/token

# Temporary file to store token value
TMPFILE=./token.txt

echo ""
echo "*****"
echo "*** Get Token                ***"
echo "*****"
echo ""
echo "Settings:"
echo " endpoint:$TOKEN"
```

```

echo " contract_number:$CONTRACT_NUMBER"

echo " user_name:$USER_NAME"

echo " user_pw:$USER_PW"

echo ""

echo "CURL command to be executed:"

echo "curl -si -X POST $TOKEN

-H \"Content-Type:application/json\"

(Additional content when the 'Authentication Method(2)' is chosen )
-H "X-FCX-Client-Cert: Client certificate mapped to the user account " \

-d

'{ \"auth\":{ \"identity\":{ \"password\":{ \"user\":{ \"contract_number\": \"$CONTRACT_NUMBER\", \"name\": \"$USER_NAME\", \"password\": \"$USER_PW\" } } } } }' "

echo -n "***** Hit Enter key to get Access Token *****"

read

curl -si -X POST $TOKEN \

-H "Content-Type:application/json" \

(Additional content when the 'Authentication Method (2)' is chosen )
-H "X-FCX-Client-Cert: Client certificate mapped to the user account " \

-d

'{ "auth":{ "identity":{ "password":{ "user":{"contract_number":"$CONTRACT_NUMBER", "name":"$USER_NAME", "password":"$USER_PW" } } } } }' \

| awk '/X-Access-Token/ {print $2}' > $TMPFILE | tr -d '\r\n'

OS_AUTH_TOKEN=`cat $TMPFILE | tr -d '\r\n`

echo "=== Token value from here ==="

echo $OS_AUTH_TOKEN

echo "=== Token value to here ==="

```


The following result will be displayed on the console:

```
*****
** Get Token          **
*****

Settings:

endpoint: https://auth-api.jp-east-1.paas.cloud.global.fujitsu.com/API/paas/auth/token
contract_number: <K5 Contract number>
user_name: <K5 User name>
user_pw: <K5 Password>

CURL command to be executed

curl -si -X POST https://auth-api.jp-east-1.paas.cloud.global.fujitsu.com
/API/paas/auth/token
-H "Content-Type:application/json"
  (To be displayed only when 'Authentication Method 2' is chosen.)
-H "X-FCX-Client-Cert: Client certificate mapped to the user account " \
-d '{"auth":{"identity":{"password":{"user":{"contract_number":"<K5 Contract
number>","name":" <K5 User name> ","password":"<K5 Password>" }}}}'
***** Hit Enter key to get Access Token *****

=== Token value from here ===

<Token value>

=== Token value to here ===
```

The Token acquired above will be used for API authentication. Hereafter, when executing API, please use the Token obtained with the described steps. Set the Token value to API header and send a request. For more details, please refer to execution examples in Chapter2.

Chapter 2 – User management API

This Chapter describes how to use 'User management API'

Topics:

- Create user
- Change user information
- Change user password
- Delete user
- Update user authentication information

2.1 Create user

1. Set information for API execution

```
$ LOGIN_ID=<User name (Required)>
$ USER_DESCRIPTION=<User description (Optional)>
$ MAILADDRESS=<Email address (Required)>
$ USER_STATUS=<User status (Required)>
$ PASSWORD=<Password (Required)>
$ LANGUAGE_CODE=<Language code (Required)>
$ ROLE_CODE=<Role code (Required)>
$ USER_LAST_NAME=<Last name (Required)>
$ USER_FIRST_NAME=<First name (Required)>
```

2. Execute API

```
$ curl -s -X POST https://k5-apiportal.paas.cloud.global.fujitsu.com/API/v1/api/users
-H "Content-Type:application/json" -H "Token:<Token value>" -d '{ "login_id":
"$LOGIN_ID", "user_description": "$USER_DESCRIPTION", "mailaddress":
"$MAILADDRESS", "user_status": "$USER_STATUS", "password": "$PASSWORD",
"language_code": "$LANGUAGE_CODE", "role_code": "$ROLE_CODE",
"user_last_name": "$USER_LAST_NAME", "user_first_name":
"$USER_FIRST_NAME"}
```

The following result will be displayed on the console:

```
{  
  "login_id": <User name>,  
  "user_description": <User description>,  
  "mailaddress": <Email address>,  
  "user_status": <User status>,  
  "language_code": <Language code>,  
  "authentication_method ": <Authentication method >,  
  "user_last_name": <Last name>,  
  "user_first_name": <First name>  
}
```

2.2 Change user information

1. Set information for API execution

```
$ LOGIN_ID=<User name (Required)>  
$ MAILADDRESS=<Email address (Optional *)>  
$ USER_DESCRIPTION=<User description (Optional *)>  
$ LANGUAGE_CODE=<Language code (Optional *)>  
$ USER_STATUS=<User status (Optional *)>  
$ PASSWORD=<Password (Optional *)>  
$ USER_LAST_NAME=<Last name (Optional *)>  
$ USER_FIRST_NAME=< First name (Optional *)>
```

*: At least one parameter must be set.

2. Execute API

```
$ curl -s -X PUT https://k5-apiportal.paas.cloud.global.fujitsu.com/API/v1/api/users -H  
"Content-Type:application/json" -H "Token:<Token value>" -d '{ "login_id":  
"$LOGIN_ID", "mailaddress": "$MAILADDRESS", "user_description":  
"$USER_DESCRIPTION", "language_code": "$LANGUAGE_CODE",  
"user_status": "$USER_STATUS", "password": "$PASSWORD", "user_last_name":  
"$USER_LAST_NAME", "user_first_name": "$USER_FIRST_NAME"}'
```

The following result will be displayed on the console:

```
{
  "login_id": <User name>,
  "language_code": <Language code>,
  "user_status": <User status>,
  "mailaddress": <Email address>,
  "user_description": <User description>,
  "user_last_name": <Last name>,
  "user_first_name": <First name>
  "accesstoken_destruction_information_list":[
    {"customer_group_id":<K5 Contract number>,
     "login_id":<User name>}]
}
```

2.3 Change user password

1. Set information for API execution

```
$ LOGIN_ID=<User name (Required)>
$ AFTER_PASSWORD=<New Password (Required)>
$ BEFORE_PASSWORD=<Old Password (Required)>
```

2. Execute API

```
$ curl -s -X PUT
https://k5-apiportal.paas.cloud.global.fujitsu.com/API/v1/api/userspassword -H
"Content-Type:application/json" -H "Token:<Token value>" -d '{"login_id":
"$LOGIN_ID", "after_password": "$AFTER_PASSWORD", "before_password":
"$BEFORE_PASSWORD"}'
```

The following result will be displayed on the console:

```
{
  "accesstoken_destruction_information_list":[
    {"customer_group_id":<K5 Contract number>,
      "login_id":<User name>}]
}
```

2.4 Delete user

1. Set information for API execution

```
$ LOGIN_ID=<User name (Required)>
```

2. Execute API

```
$ curl -s -X DELETE
https://k5-apiportal.paas.cloud.global.fujitsu.com/API/v1/api/users/?login_id=$LOGIN_ID
-H "Content-Type:application/json" -H "Token:<Token value>"
```

The following result will be displayed on the console:

```
{
  "accesstoken_destruction_information_list":[
    {"customer_group_id":<K5 Contract number>,
      "login_id":<User name>}]
}
```


2.5 Update user authentication information

1. Set information for API execution

```
$ LOGIN_ID=<User name (Required)>  
$ AUTHENTICATION_METHOD=<Authentication method (Required)> *
```

2. Execute API

```
$ curl -s -X PUT  
https://k5-apiportal.paas.cloud.global.fujitsu.com/API/v1/api/usersauthenticationmethod  
-H "Content-Type:application/json" -H "Token: <Token value>" -d '{ "login_id":  
"$LOGIN_ID", " authentication_method ": "$ AUTHENTICATION_METHOD "'}
```

The following result will be displayed on the console:

```
{  
  "authentication_method":<Authentication method >,  
  "accesstoken_destruction_information_list":[  
    {"customer_group_id":<K5 Contract number>,  
     "login_id":<User name>}}]  
}
```

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Issued December 2016

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