

FacetPhone UTAPI for UNIX / Linux

Using FacetPhone UTAPI (Universal Telephone API)

If you have a UNIX or Linux application that includes phone numbers in its data, then you can make minor program changes to enable your users to dial directly from the application. You can also enable the program to select a customer screen (“screen pop”) based on the callerID of an incoming call.

In order to dial from your application you must provide your end user with a way to select the phone number to be dialed. After selection has been made your application must invoke the FacetPhone dialer program called `fp_dial`. See the section **Dialing Telephone Numbers** for the list of parameters to be included when starting `fp_dial`.

To receive callerID information you must provide your end user with a way to request callerID information when his/her phone rings. Your application would then start the FacetPhone callerID program called `fp_cid`. See the section **Displaying CallerID Information** on the parameter to be included. The `fp_cid` program writes the callerID information to stdout.

Installing FacetPhone UTAPI

Download the UTAPI cpio file for your platform type (SCO, Linux, AIX). Extract the files using: `cpio -icmv < UTAPI` on SCO and AIX platforms, and `cpio -imv < UTAPI` on Linux platforms. Run the `utapi_install.sh` installation script on the machine on which you run your application. Enter the directory where you wish to install the server when prompted (default is `/usr/facetphone`). After the installation is finished the following directories/files will have been created.

<code>/etc/facetphonedir</code>	File that contains the path to FacetPhone’s root directory
<code>/usr/facetphone</code>	FacetPhone root directory
<code>/usr/facetphone/log.txt</code>	Log file for the UTAPI install
<code>/usr/facetphone/partno.txt</code>	Current part number and version for UTAPI programs
<code>/usr/facetphone/bin</code>	Directory containing the UTAPI programs

FacetPhone UTAPI for UNIX / Linux

<code>/usr/facetphone/bin/fp_dial</code>	Program your application will call to dial a telephone number
<code>/usr/facetphone/bin/fp_cid</code>	Program your application calls to request callerID information
<code>/usr/facetphone/bin/fp_app</code>	Sample application program to use with the <code>fp_srvr</code> program to test the correct setup of the <code>fp_utapi.cfg</code> file
<code>/usr/facetphone/bin/fp_srvr</code>	Sample server program to use with <code>fp_app</code> for testing the correct setup of the <code>fp_utapi.cfg</code> file
<code>/usr/facetphone/config</code>	FacetPhone configuration directory
<code>/usr/facetphone/config/fp_utapi.cfg</code>	Configuration file used by the UTAPI programs
<code>/usr/facetphone/source</code>	Source directory for <code>fp_app</code>
<code>/usr/facetphone/source/app_ux.c</code>	Source for <code>fp_app</code> program. Included to show what system calls your application will need to make to call the <code>fp_cid</code> and <code>fp_dial</code> programs

Set Up Configuration File

Modify the `fp_utapi.cfg` script in the FacetPhone configuration directory by setting the `fp_addr` parameter to the IP or DNS name on which the FacetPhone `fp_srvr` program is installed. Set the `fp_port` number to the number used by FacetPhone (default is 6500).

To test the configuration setup, use the `fp_app` program. Start the `fp_srvr` program. To test dialing by calling time/temperature (in Dallas) from a hypothetical user Tom, run the following:

```
fp_app -u tom -n 2148441234
```

FacetPhone UTAPI for UNIX / Linux

The fp_app program will output the following:

```
Making system call->/usr/facetphone/bin/fp_dial -u tom -n 2148441234  
Return code from system call: 0
```

The fp_srvr program should output:

```
[pid] connection accepted  
[pid] received message !<utapidial><uname=tom><number=2128441234>  
[pid] connection close
```

To test callerID run the following:

```
fp_app -u tom
```

The fp_app program will output the following:

```
Making system call->/usr/facetphone/bin/fp_cid -u tom  
Received response of:  
<address=9729859901><name=FacetCorp>
```

The fp_srvr program should output:

```
[pid] connection accepted  
[pid] received message ?<utapicid!><uname=tom>  
[pid] send message: <number=9729859901><name=FacetCorp>  
[pid] connection close
```

Dialing Telephone Numbers

The **FacetPhone** dialer program is called **fp_dial**. The command syntax is:

```
fp_dial -u username -n number -d
```

The `-u` and `-n` are required parameters. The `-d` is for debug output. The username parameter is the name that the end user would use when logging into the **FacetPhone** system. The file `app_ux.c` shows how this call would be made if your application were written in C. No response is returned back to your application other than the return code from the system call.

FacetPhone UTAPI for UNIX / Linux

Display CallerID Information

The **FacetPhone** callerid program is called **fp_cid**. The command syntax is:

```
fp_cid -u username -d
```

The **-u** is a required parameter. The **-d** is for debug output. The username parameter is the name that the end user would use when logging into the **FacetPhone** system. The file `app_ux.c` shows how this call would be made if your application were written in C.

If callerID information is available, `fp_cid` will output the information to stdout. The format of the information is:

```
<address=9729859901><name=FACETCORP>
```

If no callerID is available, `fp_cid` will write the string “<number=No caller id>” to stdout.

Uninstalling FacetPhone UTAPI

You uninstall FacetPhone UTAPI for UNIX/Linux by deleting the FacetPhone root directory and all sub-directories and files, and deleting `facetphonedir` from the `/etc` directory. Make sure you are not running any of the UTAPI programs when you are uninstalling.

More Information

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