



# **uaCSTA Configuration Description**

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# 1 Introduction

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## 1.1 Overview

uaCSTA is a CTI specification based on SIP and XML. It was proposed by ECMA and developed from CSTA.

## 1.2 Connection Mode of uaCSTA

uaCSTA uses SIP to allow CTI to remotely connect to and manage SIP phones.

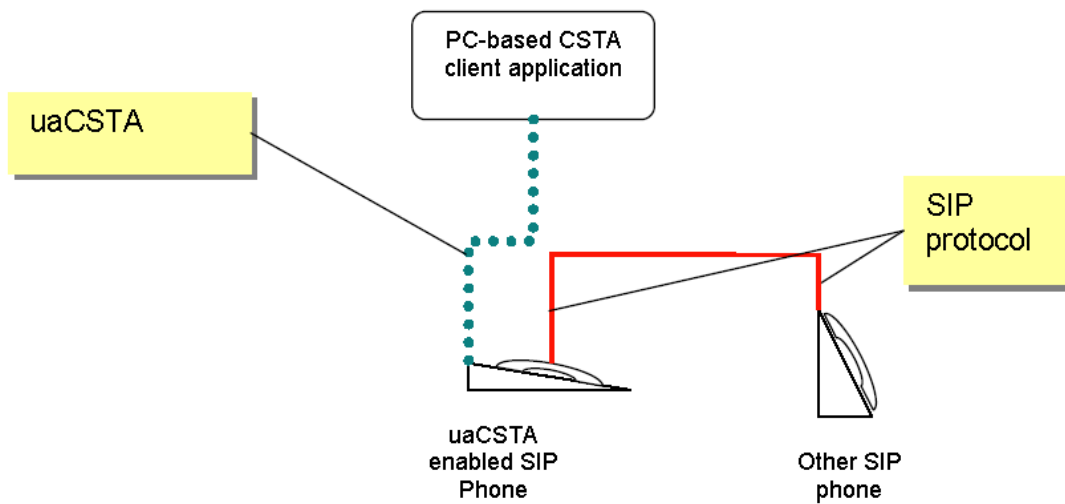


Figure 2.1

Or

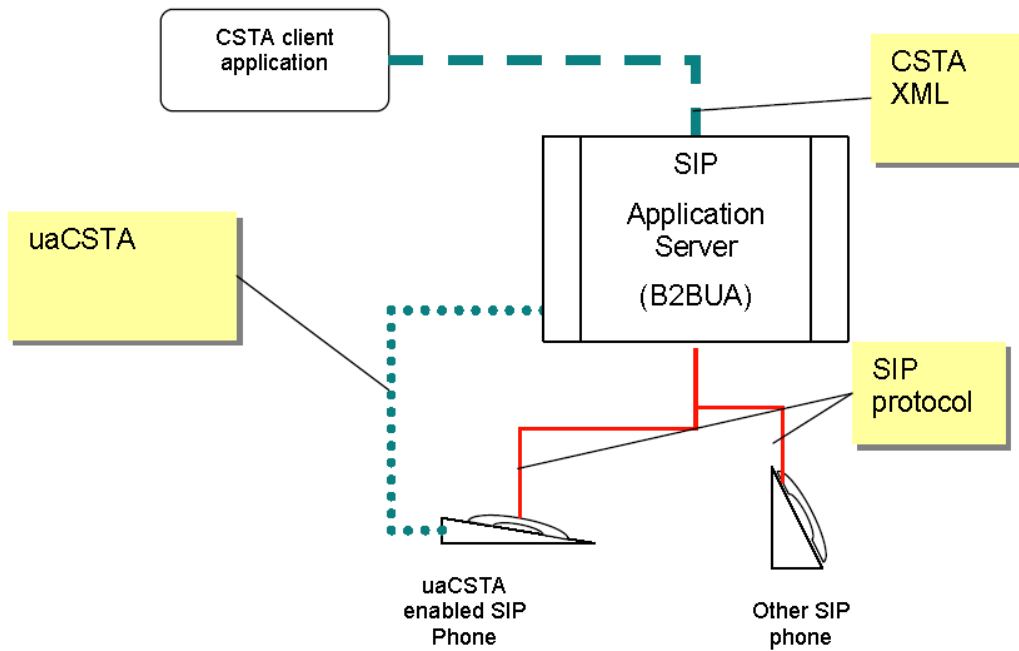


Figure 2.2

The uaCSTA server and SIP phone set up a connection using the SIP INVITE message, and exchange control information using the INFO message.

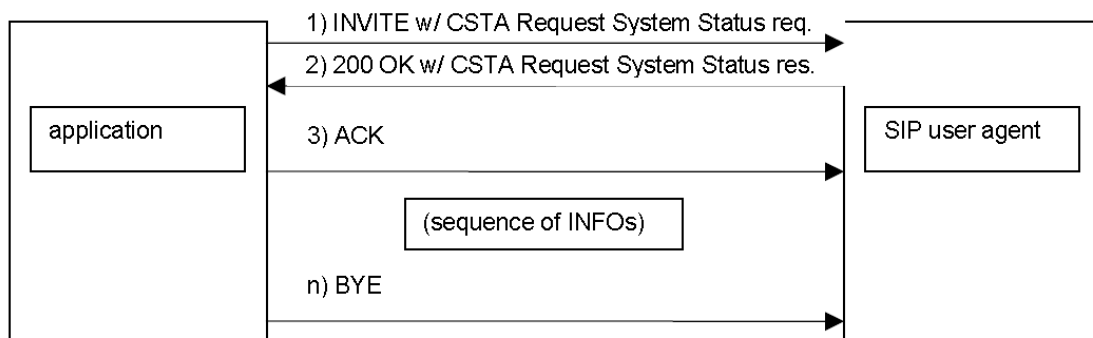


Figure 2.3

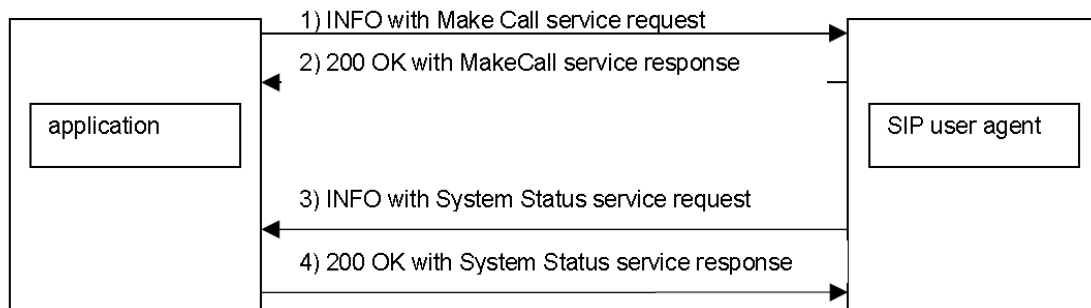


Figure 2.4

## 2 Configuration Description

### 2.1 Web-based Configuration

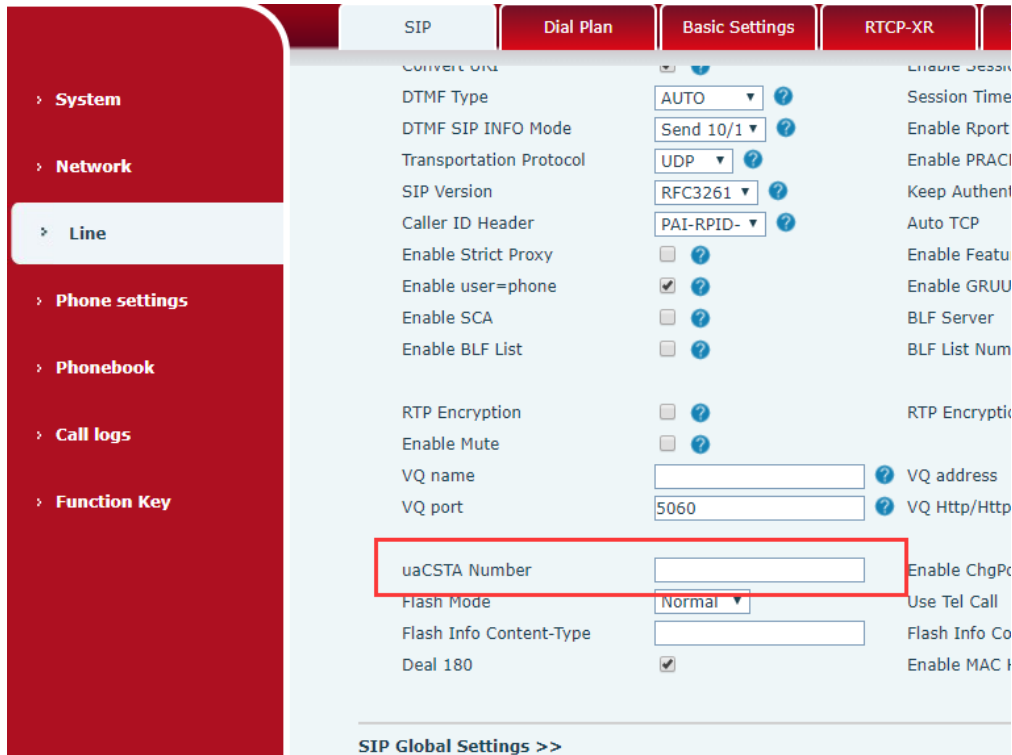


Figure 3.1

When uaCSTA needs to control a line, enter the number of the line to bind it to uaCSTA. (The uaCSTA on the 3cx server uses the same line as the call account registration.)

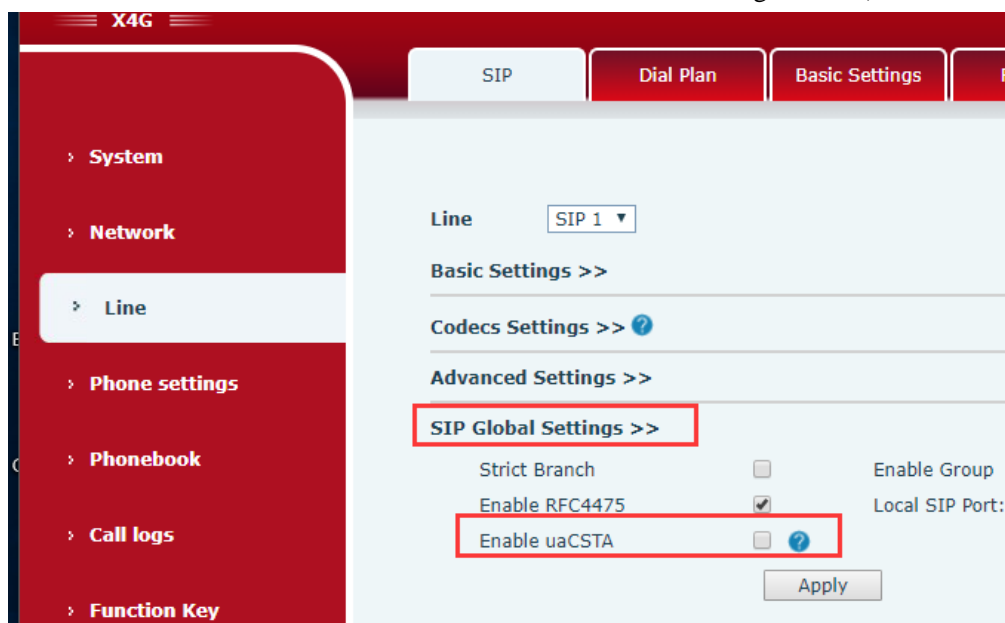


Figure 3.2

Choose whether to enable the uaCSTA function.

## 2.2 Configuration Items in TXT Format

<SIP CONFIG MODULE>

CSTA Enable :0 0: Enable the uaCSTA function. 1: Disable the uaCSTA function.

SIP1 CSTA Number : Number registered for calls

## 2.3 Configuration Items in Dotted Format

sip.CSTAEnabled

sip.line.1.CSTANumber

## 3 Use Description

### 3.1 Configuration

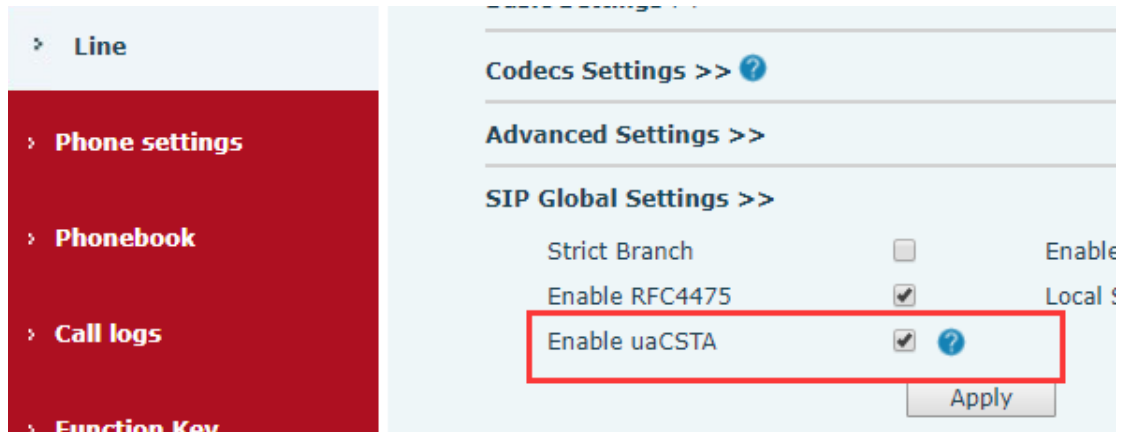


Figure 4.1

Enable uaCSTA.

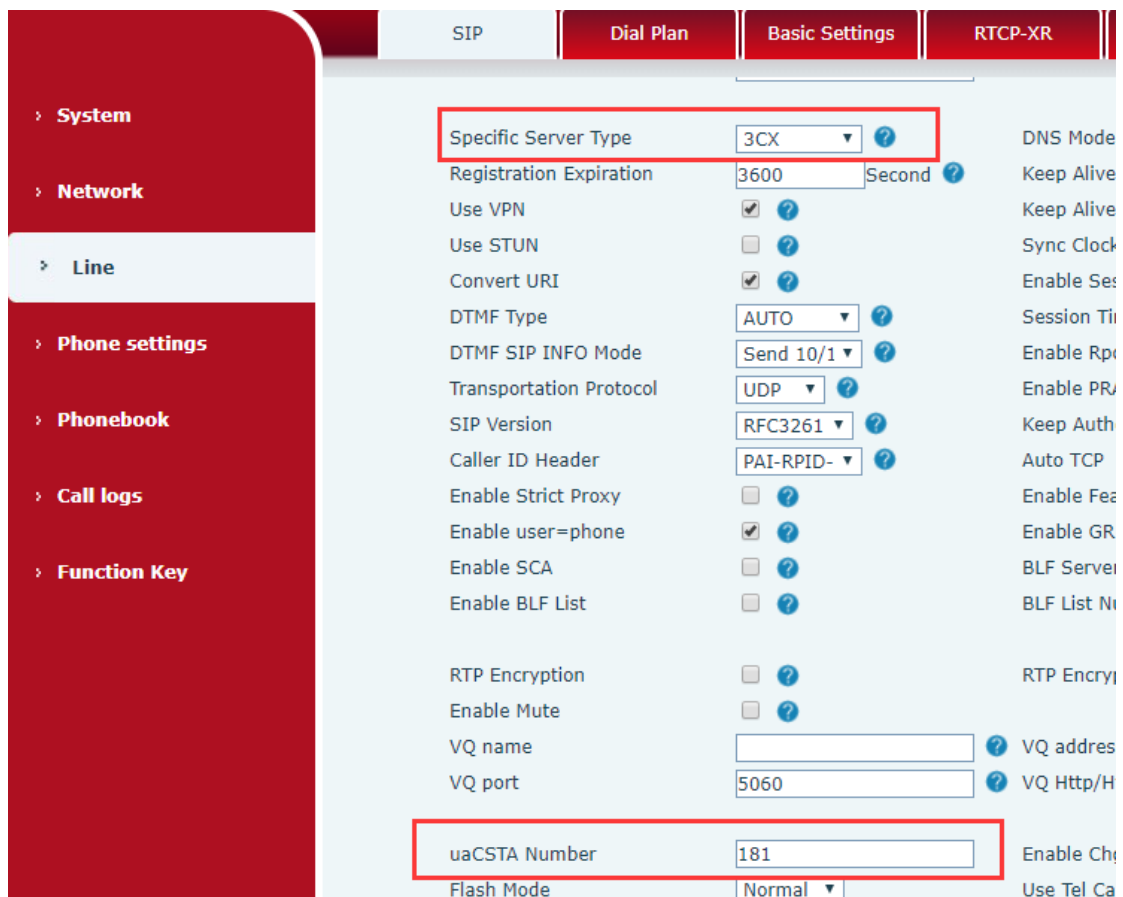


Figure 4.2

uaCSTA Number is the registered number. Set the server type to 3CX.

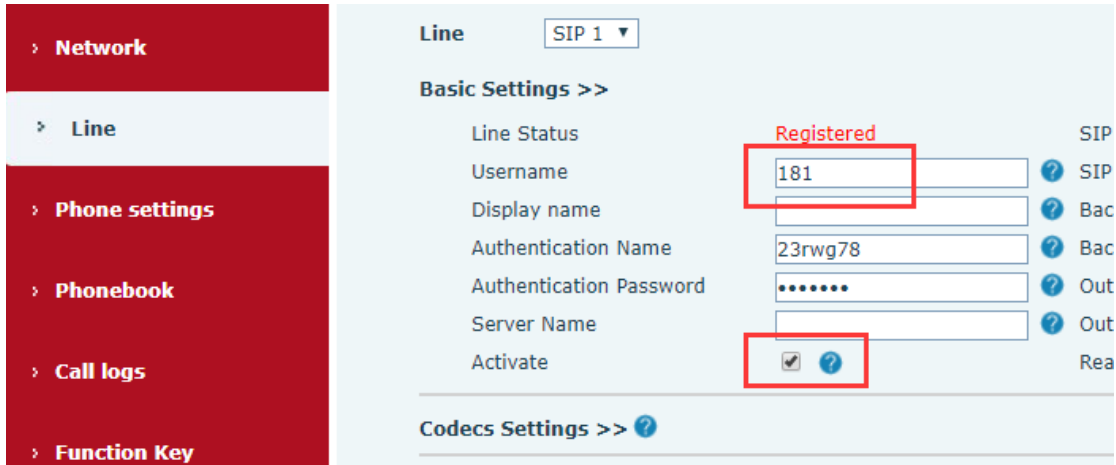


Figure 4.3

Register.

### 3.2 Capturing Packets

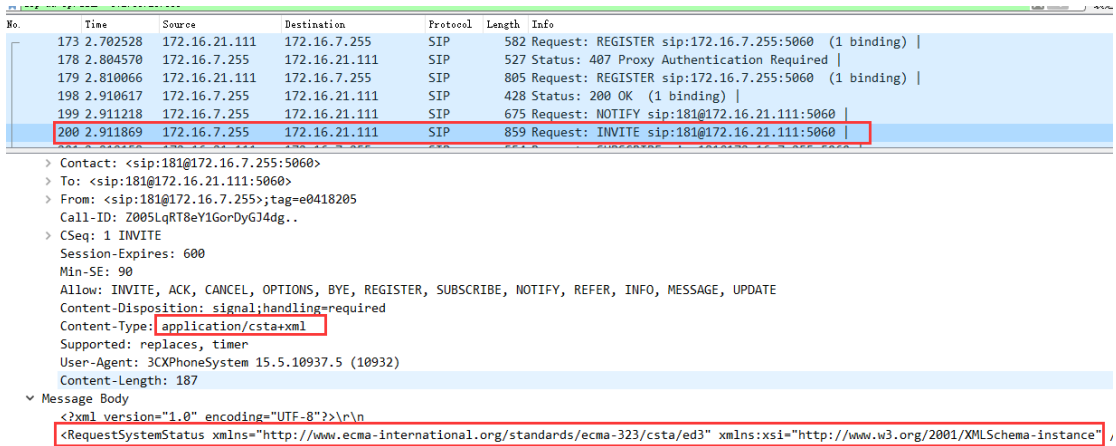


Figure 4.4

After registration is successful, the server sends a invite request to set up an uaCSTA link with the phone.

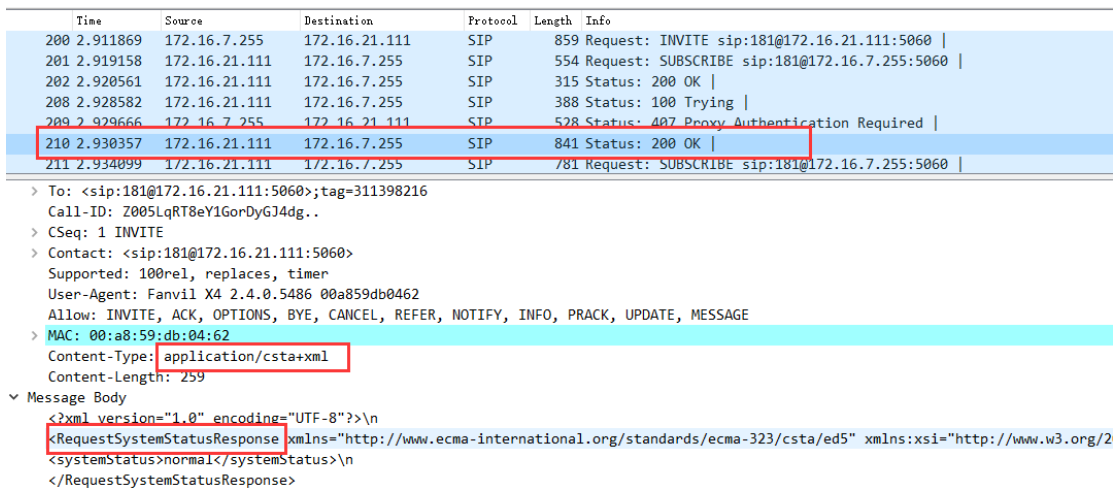




Figure 4.5

When the phone returns 200 OK, the link is set up.

213	2.935888	172.16.7.255	172.16.21.111	SIP	754 Request: INFO sip:181@172.16.21.111:5060
214	2.944296	172.16.7.255	172.16.21.111	SIP	752 Status: 200 OK
215	2.945312	172.16.7.255	172.16.21.111	SIP	430 Status: 200 OK
216	2.945837	172.16.7.255	172.16.21.111	SIP	630 Request: NOTIFY sip:181@172.16.21.111:5060
217	2.952009	172.16.7.255	172.16.21.111	SIP	419 Status: 200 OK
218	2.953414	172.16.7.255	172.16.21.111	SIP	749 Request: INFO sip:181@172.16.21.111:5060

Message Header

- Via: SIP/2.0/UDP 172.16.7.255:5060;branch=z9hG4bK-524287-1---0866561dc8319e74;rport
- Max-Forwards: 70
- Contact: <sip:181@172.16.7.255:5060>
- To: <sip:181@172.16.21.111:5060>;tag=311398216
- From: <sip:181@172.16.7.255>;tag=e0418205
- Call-ID: Z005LqRT8eY1GorDyGJ4dg..
- CSeq: 2 INFO
- Content-Type: application/csta+xml
- User-Agent: 3CXPhoneSystem 15.5.10937.5 (10932)
- Content-Length: 282

Message Body

```
<?xml version="1.0" encoding="UTF-8"?>\n\n<MonitorStart xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">\n\n<monitorObject><deviceObject>sip:181@172.16.7.255:5060</deviceObject></monitorObject></MonitorStart>\n\n
```

Figure 4.6

The server sends MonitorStart to start monitoring. The phone returns 200 OK. The uaCSTA server and phone exchange information using INFO messages.

### 3.3 Using the Client

Log in to the client: Search for the registered account under server extension. Normally, a webpage link is provided for authentication. Click the link to log in to the client.

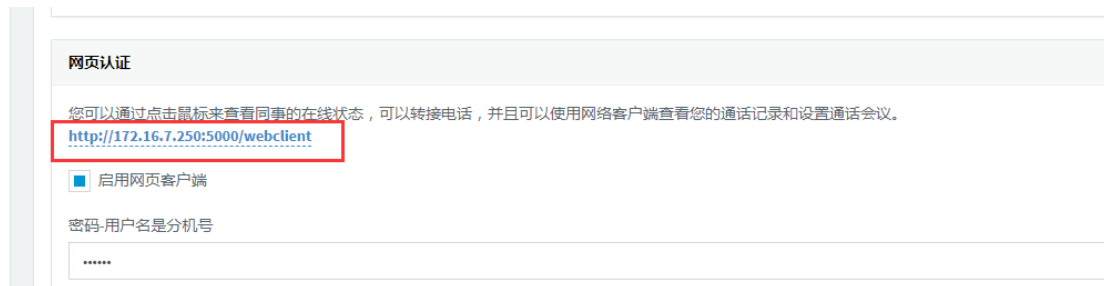


Figure 4.7

Log in to the web page and enter the extension number and password.



Set the status.

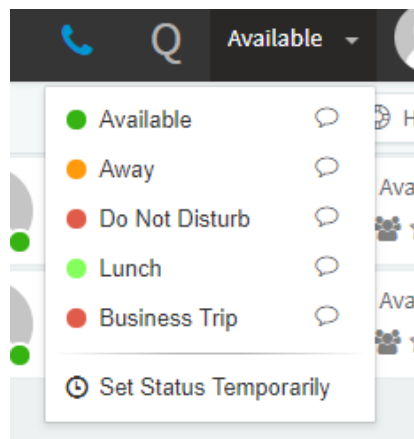


Figure 4.9

## Call

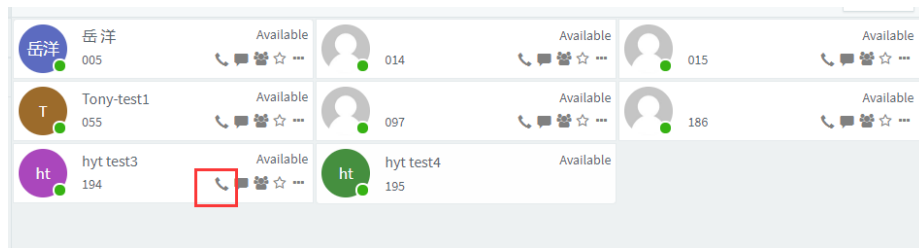


Figure 4.10

## Call operations

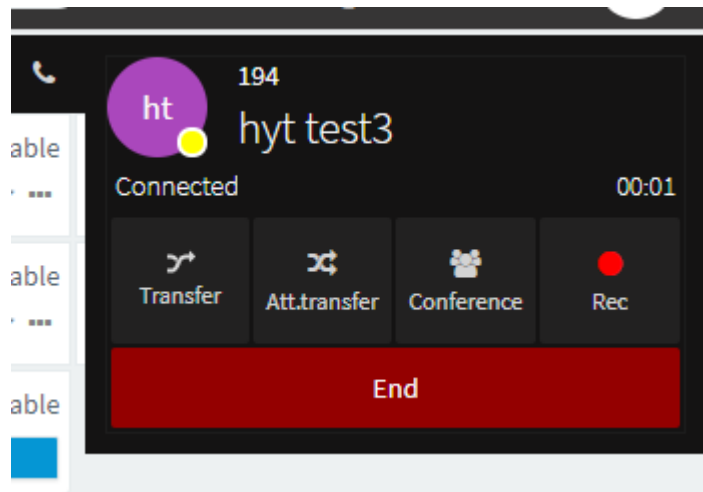


Figure 4.11