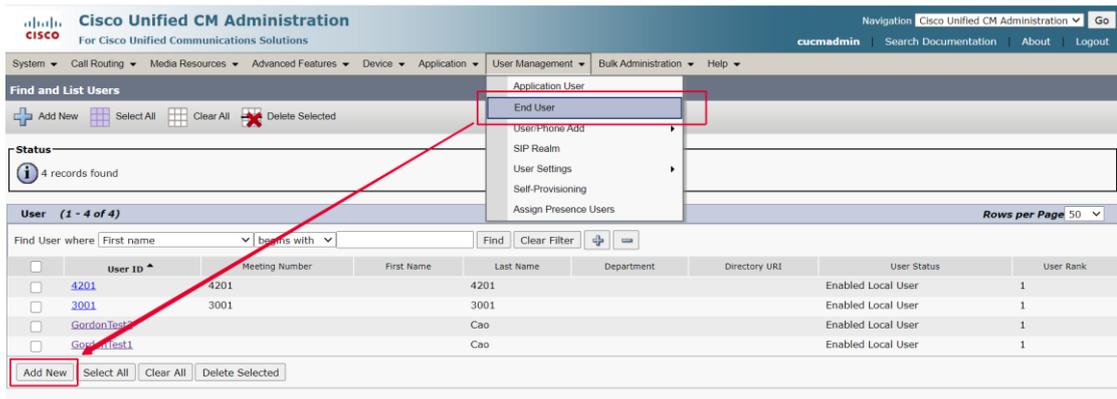


Register accounts on CUCM Platform

Note: Before the process, please reset the phone to factory default settings.

1. Create User

1) Go to User Management-> End User, press Add New button.



The screenshot shows the Cisco Unified CM Administration web interface. The 'User Management' menu is open, and the 'End User' option is highlighted. A red box highlights the 'Add New' button at the bottom left of the user list table. A red arrow points from the 'Add New' button to the 'End User' menu option.

User ID	Meeting Number	First Name	Last Name	Department	Directory URI	User Status	User Rank
4201	4201		4201			Enabled Local User	1
3001	3001		3001			Enabled Local User	1
GordonTest1		Cao				Enabled Local User	1
GordonTest1		Cao				Enabled Local User	1

2) Input User information.

- User ID:** User name in CUCM, used for Register Name in phone web interface for registering account.
- Password:** Password for user in CUCM.
- Last Name: Required.
- Digest Credentials:** Used for register Password in phone web interface for registering account.

Cisco Unified CM Administration

System > Call Routing > Media Resources > Advanced Features > Device > Application > User Management > Bulk Administration > Help

End User Configuration

User Information

User ID* GordonTest **register name**

Password *****

Confirm Password *****

Self-Service User ID

PN

Confirm PIN

Last name* Cao

Middle name

First name

Display name

Title

Directory URI

Telephone Number

Home Number

Mobile Number

Pager Number

Mail ID

Manager User ID

Department

User Locale

Associated PC/Site Code

Digest Credentials ***** **password**

Confirm Digest Credentials *****

2. Create Device

1) Go to Device-> Phone, press Add New button.

Cisco Unified CM Administration

System > Call Routing > Media Resources > Advanced Features > Device > Application > User Management > Bulk Administration > Help

Find and List Phones

CTI Route Point

Gatekeeper

Gateway

Phone

Trunk

Remote Destination

Device Settings

Status

7 records found

Phone (1 - 7 of 7)

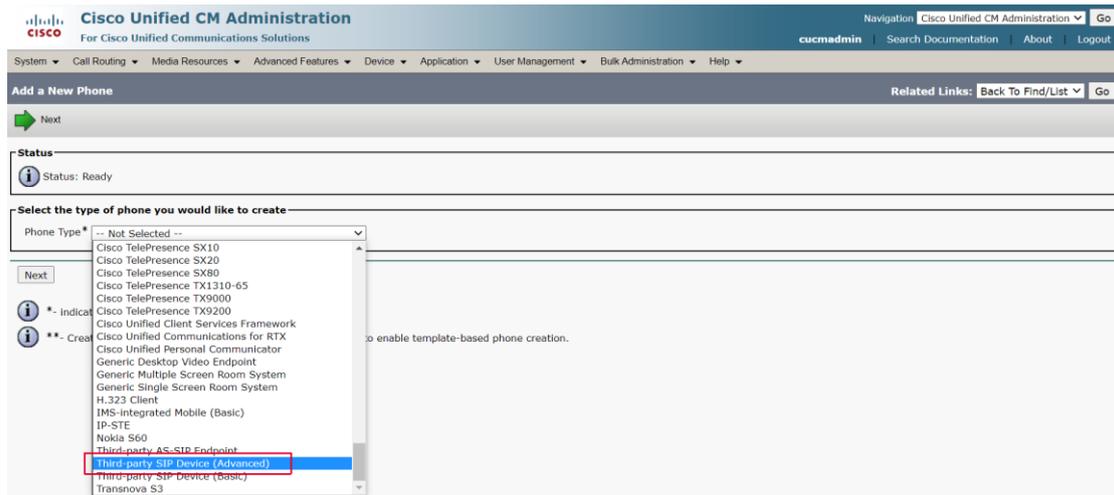
Find Phone where Device Name begins with Find Clear Filter

	Device Name(Line)	Description	Device Pool	Device Protocol	Status	IP4 Address	Copy	Super Copy
<input type="checkbox"/>	SEP2C3124C8DE51	SEP2C3124C8DE51	Default	SIP	None	None		
<input type="checkbox"/>	SEP5AC7569D44	SEP5AC7569D44	Default	SIP	None	None		
<input type="checkbox"/>	SEP5CE17610CB04	Auto 1004	Default	SIP	Registered with 10.2.1.182	10.81.18.33		
<input type="checkbox"/>	SEP5CE17610CD1E	Auto 1003	Default	SIP	Registered with 10.2.1.182	10.81.18.25		
<input type="checkbox"/>	SEP805EC0333F16	SEP805EC0333F16	Default	SIP	Registered with 10.2.1.182	10.81.56.92		
<input type="checkbox"/>	SEP805EC0A36A09	SEP805EC0A36A09	Default	SIP	None	None		
<input type="checkbox"/>	SEP64C72268D3C6	SEP64C72268D3C6	Default	SIP	None	None		

Add New Select All Clear All Delete Selected Reset Selected Apply Config to Selected

2) Select the type of phone you would like to create. We choose Third-party SIP Device (Advanced), then press Next.

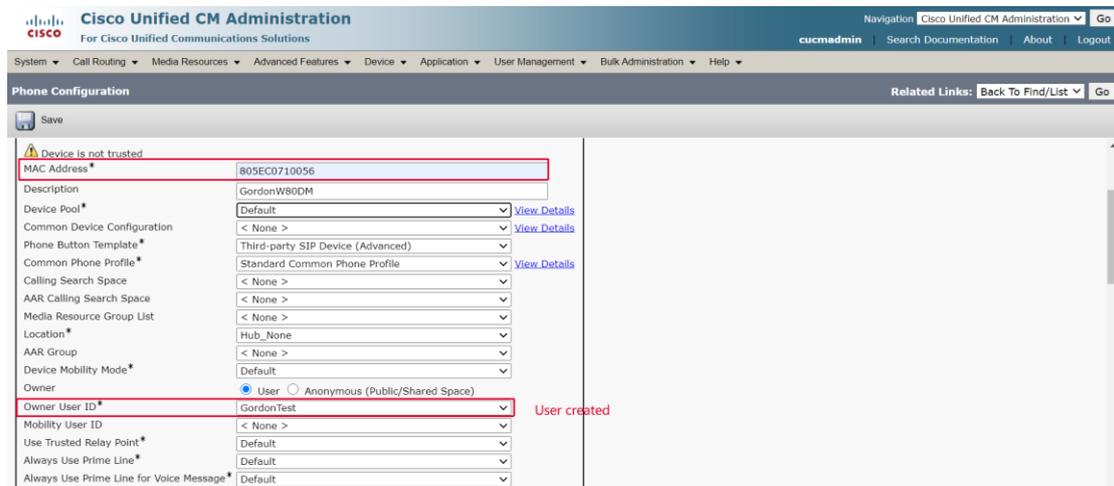
P.S. Advanced for 8 lines, Basic for 1 line only.



3) Input User information.

a. MAC Address of device.

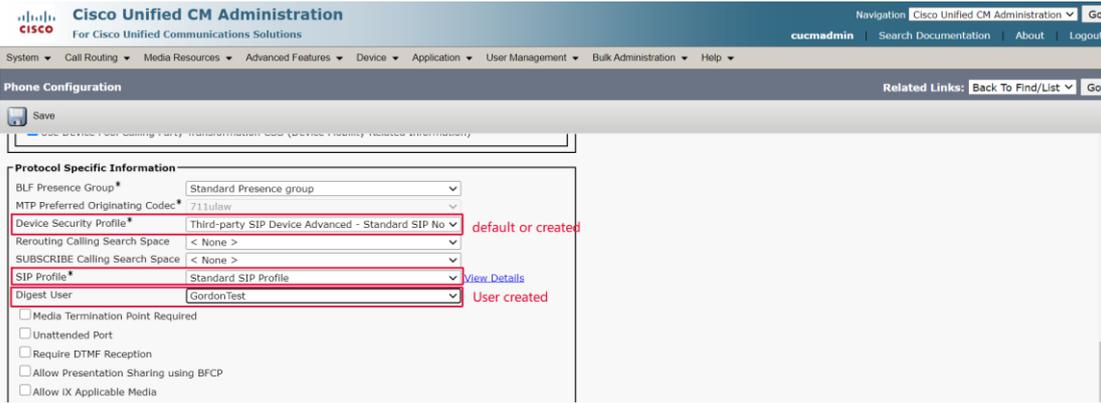
b. **Owner User ID:** Select the User you created at Step 1, to associate device with User.



c. **Device Security Profile:** Choose a default or customized profile.

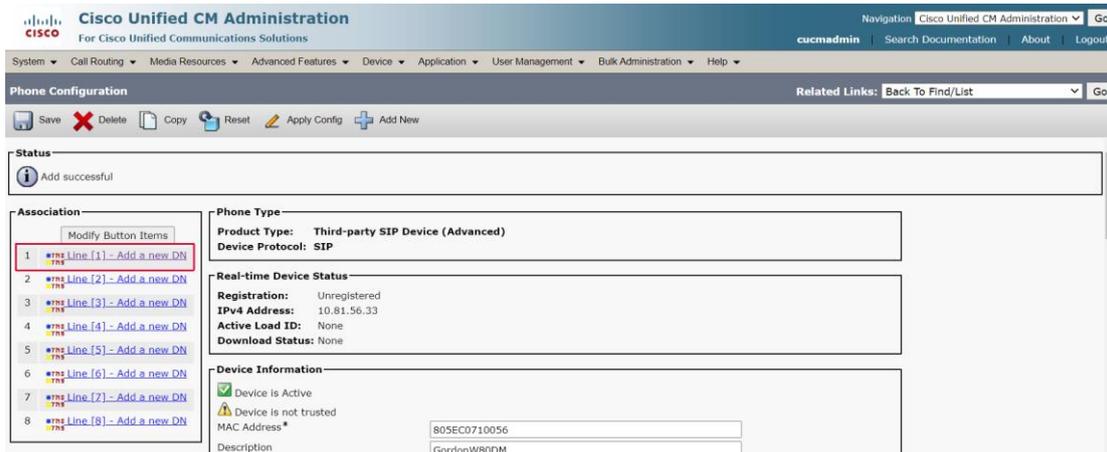
d. SIP Profile: Standard SIP Profile.

e. **Digest User:** Select the User you created at Step 1, ensure successful authentication during registration.



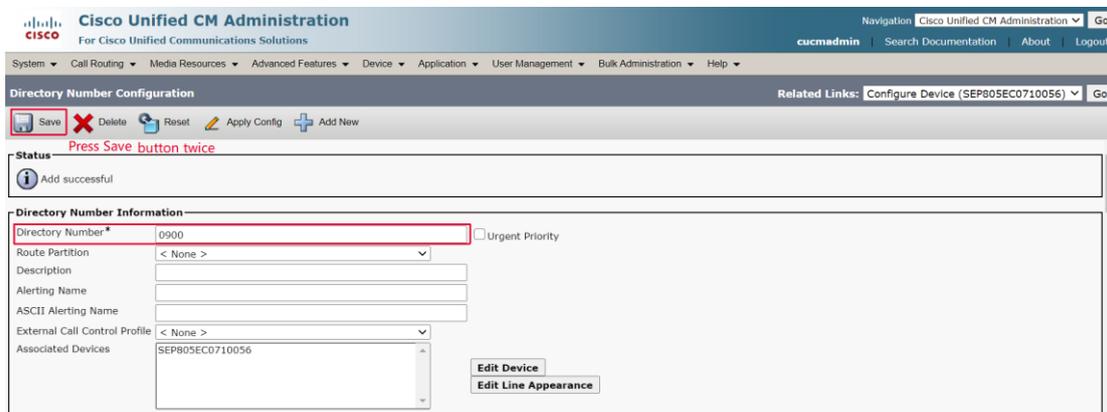
3. Add Numbers

1) After creating device, press Line [1]-Add a new DN on the left side of this page.



2) Input a number you want, for registering next step.

P.S. Need to press Save button **twice** to update the Directory Number.



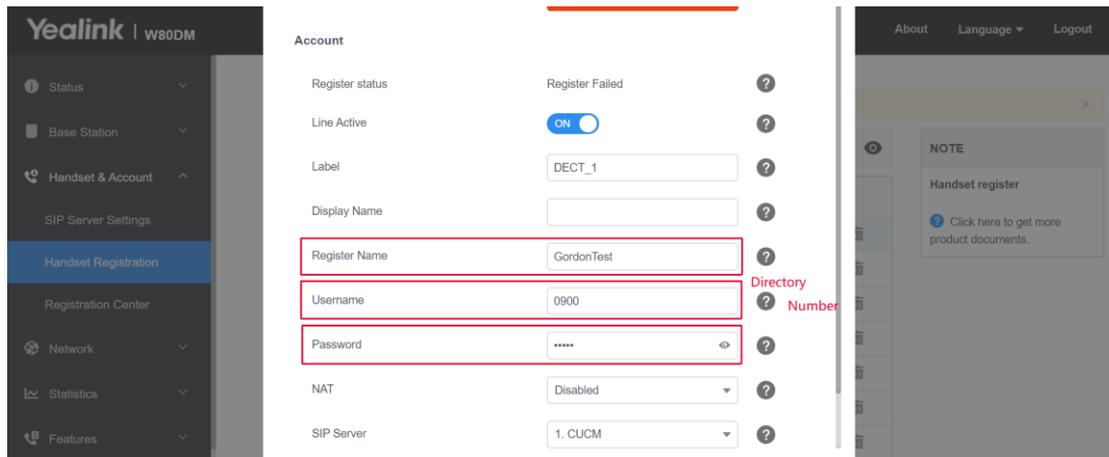
4. Register on web Interface

0) Choose **TCP** transport type.

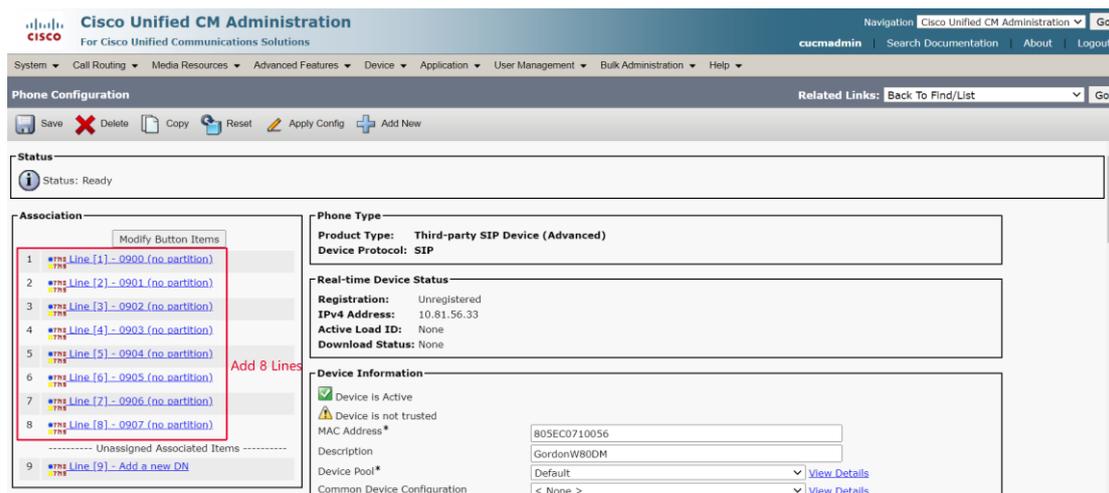
1) **Register Name:** Input the **Digest User** in Step 1.

2) **Username:** Input the **Directory Number** in Step 3.

3) **Password:** Input the **Digest Credentials** in Step 1.



If the device we created is Multi-Cell product like W80DM, we need to add more than 8 lines to assign them to different DECT handsets. **The steps below are to add and register more than 8 lines in W80DM.**



5. Create Additional User

Like in Step 1 before, we create a User named GordonTest_Attach.

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration | Go
cucmadmin | Search Documentation | About | Logout

System | Call Routing | Media Resources | Advanced Features | Device | Application | User Management | Bulk Administration | Help

Find and List Users

+ Add New | Select All | Clear All | Delete Selected

Status
6 records found

User (1 - 6 of 6) Rows per Page 50

Find User where First name | begins with | Find | Clear Filter

<input type="checkbox"/>	User ID	Meeting Number	First Name	Last Name	Department	Directory URI	User Status	User Rank
<input type="checkbox"/>	3001	3001		3001			Enabled Local User	1
<input type="checkbox"/>	4201	4201		4201			Enabled Local User	1
<input type="checkbox"/>	GordonTest1			Cao			Enabled Local User	1
<input type="checkbox"/>	GordonTest_Attach			Cao			Enabled Local User	1
<input type="checkbox"/>	GordonTest2			Cao			Enabled Local User	1
<input type="checkbox"/>	GordonTest			Cao			Enabled Local User	1

+ Add New | Select All | Clear All | Delete Selected

6. Create Additional Device

Like in Step 2 before, we create a new device and associate the device with User GordonTest_Attach steps below:

Note:

- 1) **Owner User ID:** Select the same **User ID** as in Step 2.
- 2) **Digest User:** Select the Additional User created at Step 5, ensure successful authentication during registration.

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration | Go
cucmadmin | Search Documentation | About | Logout

System | Call Routing | Media Resources | Advanced Features | Device | Application | User Management | Bulk Administration | Help

Phone Configuration Related Links: Back To Find/List | Go

Save | Delete | Copy | Reset | Apply Config | Add New

778 Line [3] - Add a new LN
778 Line [6] - Add a new DN
778 Line [7] - Add a new DN
778 Line [8] - Add a new DN

Device Information

Is Active
⚠ Device is not trusted

MAC Address* 805EC0076FD1

Description GordonT48S

Device Pool* Default [View Details](#)

Common Device Configuration < None > [View Details](#)

Phone Button Template* Third-party SIP Device (Advanced) [View Details](#)

Common Phone Profile* Standard Common Phone Profile [View Details](#)

Calling Search Space < None >

AAR Calling Search Space < None >

Media Resource Group List < None >

Location* Hub_None

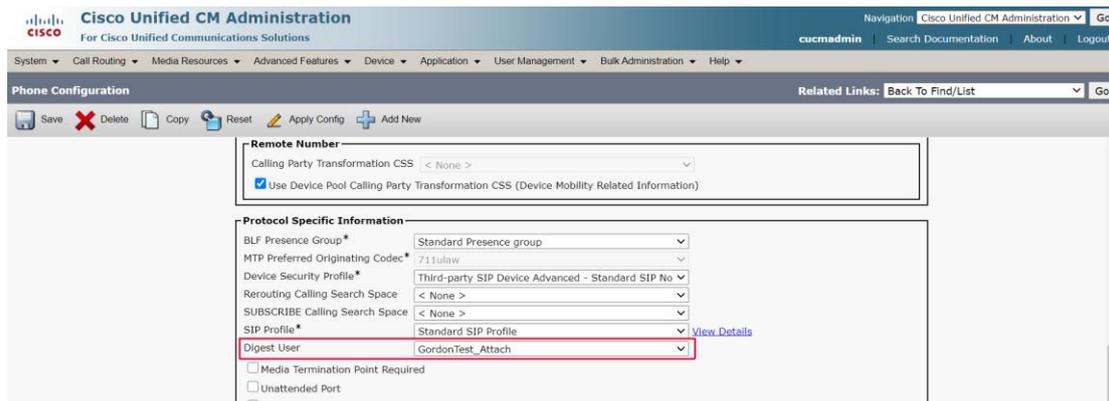
AAR Group < None >

Device Mobility Mode* Default [View Current Device Mobility Settings](#)

Owner User Anonymous (Public/Shared Space)

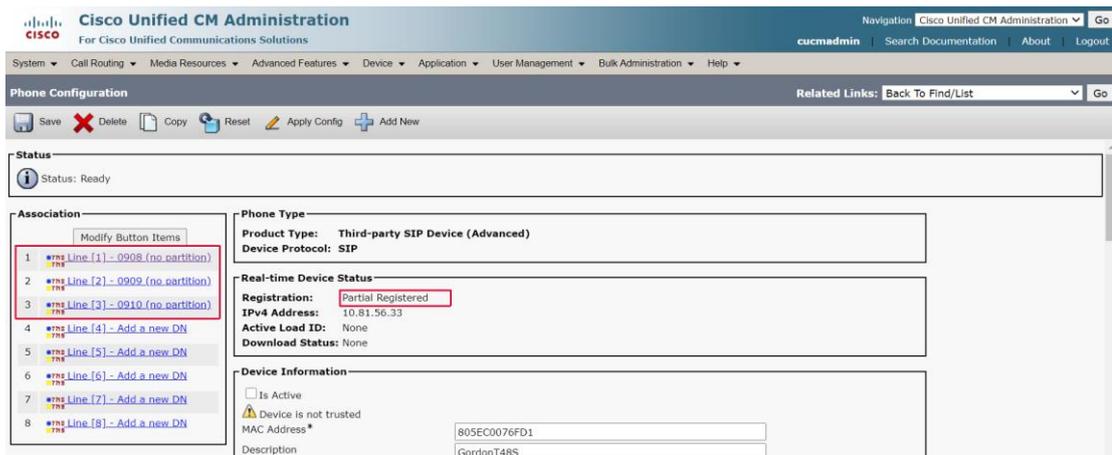
Owner User ID* GordonTest

Mobility User ID < None >



7. Add Numbers

After creating additional device, we can add new Directory Numbers on this device (not more than 8 lines), then register these lines in master device W80DM.



8. Configure the W80DM

Due to the limitation of CUCM, registration of more than 8 accounts with same IP Address and Source Port on the server is prohibited. We need configure parameters to modify the TCP source port.

sip.tcp_connection_per_line.enable = 1 [MUST]

This parameter will use a random source port for each account and

it follows a “increment in range” rule: Increment in order within the configured range by the below parameters (both of permitted value ranges from 1024 to 65535).

sip.min_tcp_port =

It configures the minimum TCP port.

sip.max_tcp_port =

It configures the maximum TCP port.

sip.tcp_port_random_mode = 1 [MUST]

It configures the listening port mode.

0-random source port (non 506x), fixed ports (506x) carried in the Contact, Via header.

1-random source port (non 506x) and other ports (non 506x) carried in the Contact, Via header.

sip.tls_port_random = 1

Same as *sip.tcp_port_random_mode = 1*, but for TLS transport type.

After applying the parameter, the accounts will register with different source port. (Only for TCP transport type now)

9. Register on web Interface

- 1) **Register Name:** Input the **Additional User ID in Step 5.**
- 2) **Username:** Input the **Directory Number in Step 7.**
- 3) **Password:** Input the **Digest Credentials in Step 5.**

The screenshot shows the 'Handset Registration' configuration page for a Yealink W80DM device. The 'Register Name' field is highlighted with a red box and contains the text 'GordonTest_Attach'. The 'Username' field contains '0910'. The 'Register status' is 'Registered' and the 'Line Active' toggle is 'ON'. The 'SIP Server' is set to '1. CUCM'. A 'NOTE' box on the right side of the page reads: 'NOTE: Handset register. Click here to get more product documents.'

Then, we can have more than 8 lines in one W80DM.

The screenshot shows the 'Handset Registration' list page for a Yealink W80DM device. The table displays 10 rows of handset registration information. The first 9 rows are 'Registered' and the 10th row is 'Unregistered'. The table has columns for '#', 'IPUI', 'Handset Status', 'SIP Account', 'Account Status', and 'Operation'. A 'NOTE' box on the right side of the page reads: 'NOTE: Handset register. Click here to get more product documents.'

#	IPUI	Handset Status	SIP Account	Account Status	Operation
1	0291C6B7EA	Registered	0900	Registered	
2	0227CB937D	Registered	0901	Registered	
3	0291AB197E	Registered	0902	Registered	
4	0291C6B7EF	Registered	0903	Registered	
5	0227C7A6FC	Registered	0904	Registered	
6	0291A602AC	Registered	0905	Registered	
7	0291B162AB	Registered	0906	Registered	
8	0291C0B9D6	Registered	0907	Registered	
9	0291C3C606	Registered	0908	Registered	
10		Unregistered	0909	Registered	