

Merit LILIN Application Note

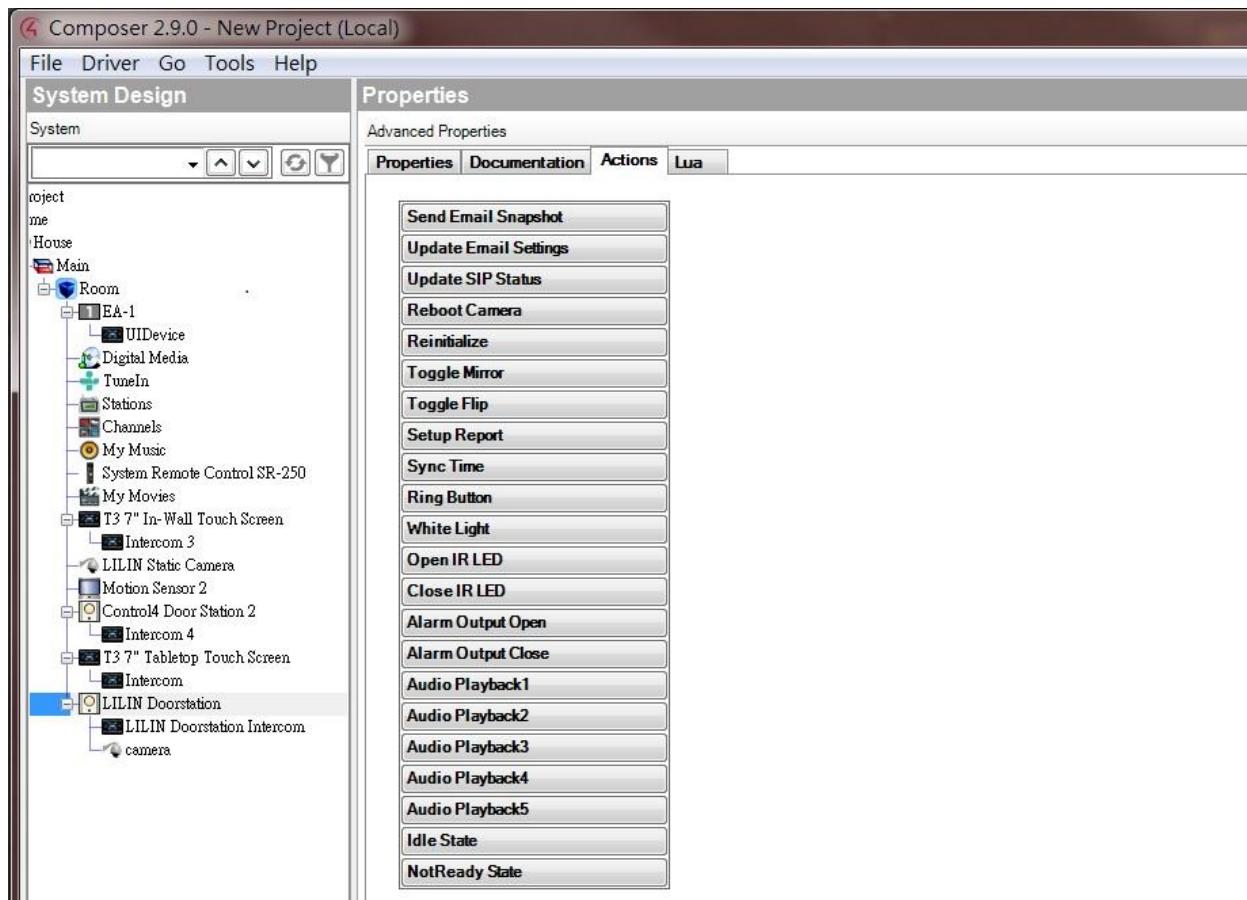
How to use SIP protocol via Control4

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Date : 11/30/2016
Dept : Technical Support, Taipei

Subject: SIP communication of LILIN IP door station via Control4

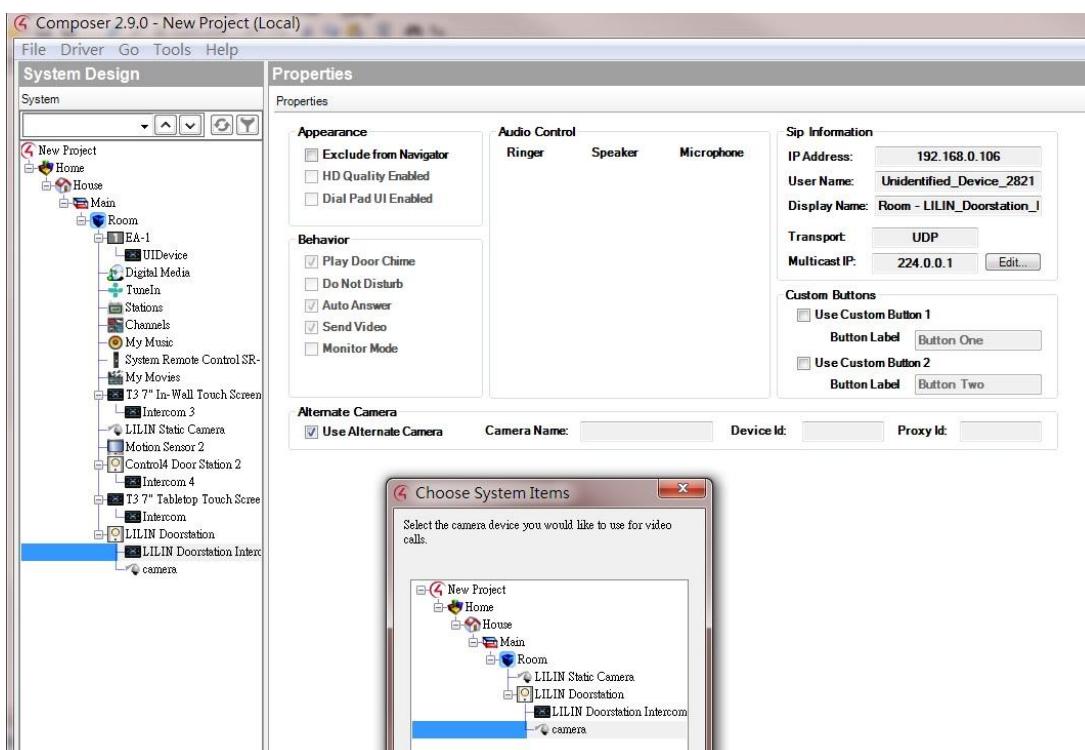
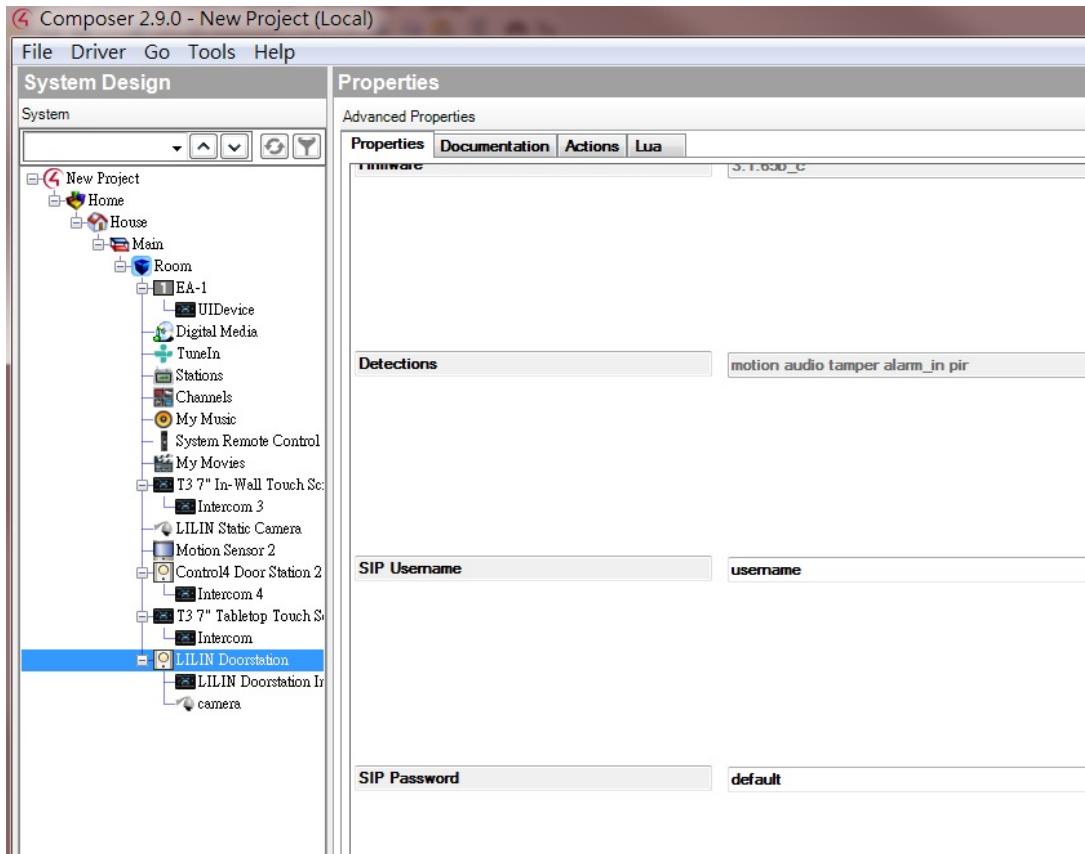
Features:

1. LILIN door station and SIP cameras can communicate with Control4 touch screen via Control4 SIP server (controller).
2. LILIN door station and SIP cameras can communicate with Linphone via Control4 SIP server (controller).
3. Both video and audio are supported.
4. SSDP is supported for LILIN door station proxy
5. Email notification via camera driver for motion, bell button, and DI alarm
6. Door station and camera features are integrated in driver:
LILIN_doorstation_proxy_template.c4z.
7. Support Mic and volume control



How to Setup the Driver

1. Setup SIP username and SIP password via Properties page.
2. Update SIP Status button to update the camera.
3. Select Alternate Camera (door camera)
4. Refresh Navigators



How to use

Firmware requirements

Control4 touch screen supported: C4-TT7-BL

Camera supported: IPC0522 door station

Firmware version: 3.1.65g or higher

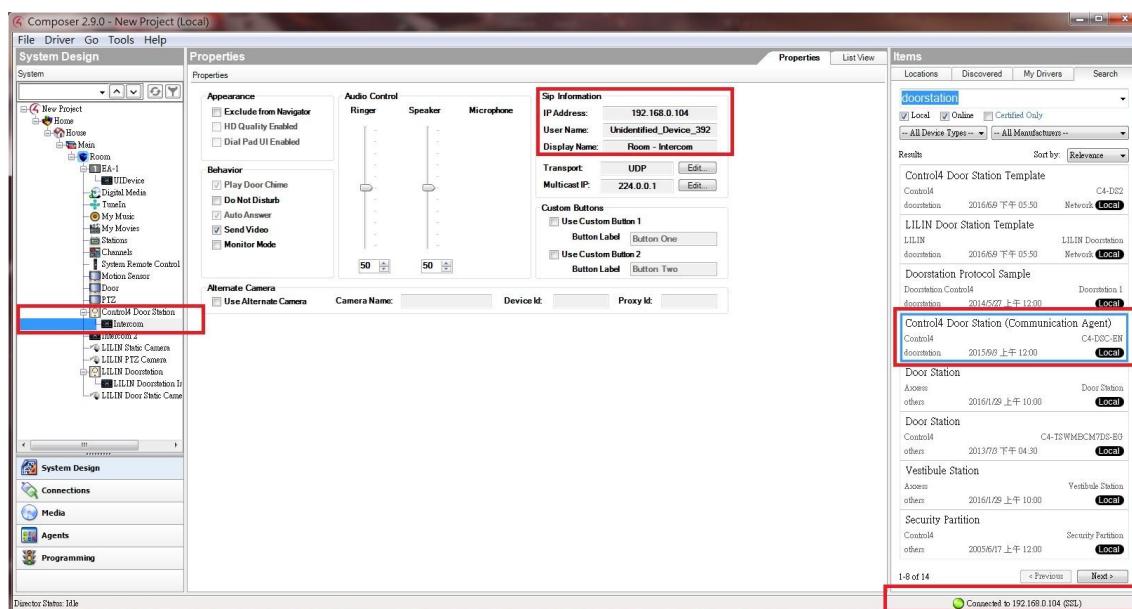
Control4 version: 2.8.0 or higher

Linephone version: 2.2.5 or higher

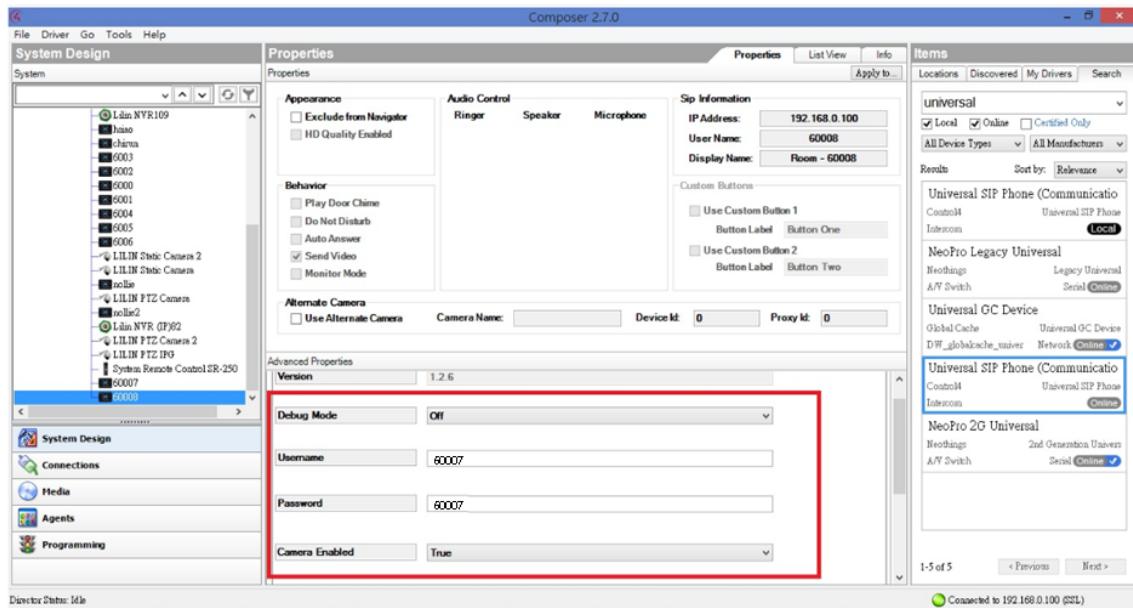
To verify SIP clients (LILIN door station) are registered, logon Control4 controller at port 5080.

1. Communicate two SIP door stations via a Control4 Controller.

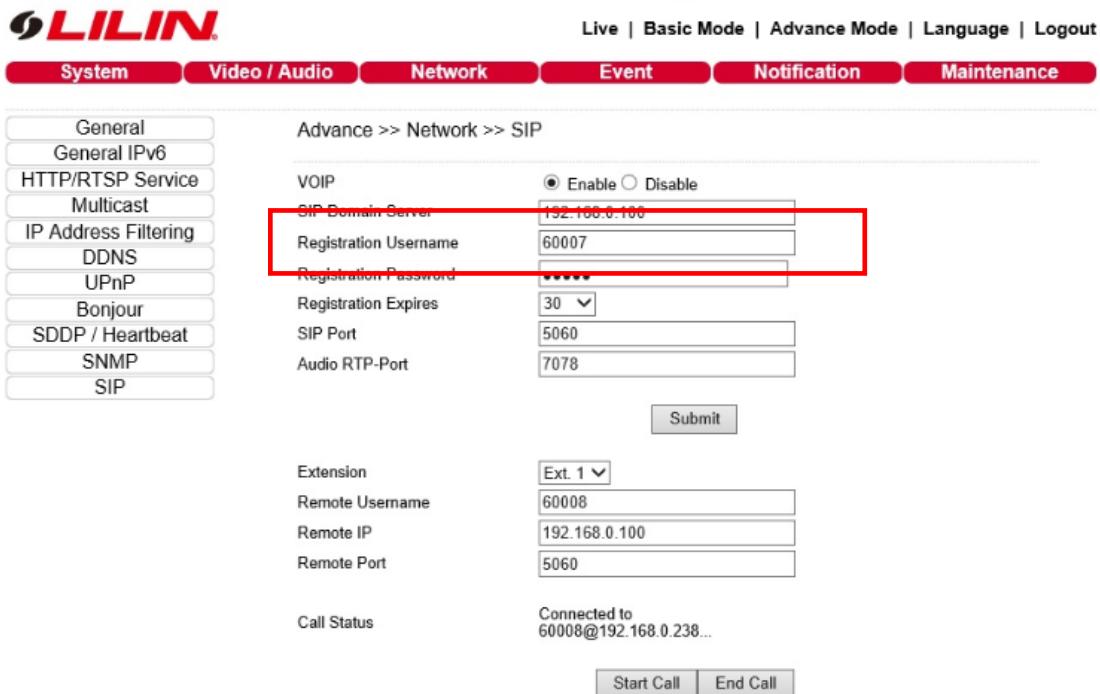
- In System Design, search “LILIN Door Station” driver and install the driver via Composer. Assume the IP address of Control4 controller (SIP server) is 192.168.0.100.



Create a SIP client, 60007, for LILIN IP door station at Composer, by specifying SIP username and SIP password. The SIP username and SIP password should match LILIN door station's SIP username and SIP password.



- Enter Control4 controller's IP address at SIP Domain Server within the LILIN door station. LILIN door station will register Control4's controller. Assume that LILIN door station's Registration Username (SIP username) is 60007.



- Setup another door station with SIP username at 60008. Specify Remote Username and click "Start Call" button. SIP users 60007 and 60008 can communicate with each other via Control4 controller.

LILIN

Live | Basic Mode | Advance Mode | Language | Logout

System Video / Audio Network Event Notification Maintenance

General	Advance >> Network >> SIP	
General IPv6		
HTTP/RTSP Service	VOIP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Multicast	SIP Domain Server	192.168.0.100
IP Address Filtering	Registration Username	60008
DDNS	Registration Password	*****
UPnP	Registration Expires	30
Bonjour	SIP Port	5060
SDDP / Heartbeat	Audio RTP-Port	7078
SNMP		
SIP		

Submit

Extension	Ext-1 M
Remote Username	6003
Remote IP	192.168.0.100
Remote Port	5060

Call Status Connected to 60007@192.168.0.174...

Start Call End Call

2. How to setup Control touch panel for LILIN door station for dell button triggering

- Call Control4 touch screen triggered by the bell button of LILIN door station. For the Remote Username, please enter the MAC address of the touch screen from LILIN door station. You are able to trigger the touch screen via LILIN door station.

LILIN

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System Video / Audio Network Event Notification Maintenance

General	Advance >> Network >> SIP	
General IPv6		
HTTP/RTSP Service	VOIP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Multicast	SIP Domain Server	192.168.3.105
IP Address Filtering	Registration Username	7002
DDNS	Registration Password	*****
UPnP	Registration Expires	30
Bonjour	SIP Port	5060
SDDP / Heartbeat	Audio RTP-Port	7078
SNMP		
SIP		

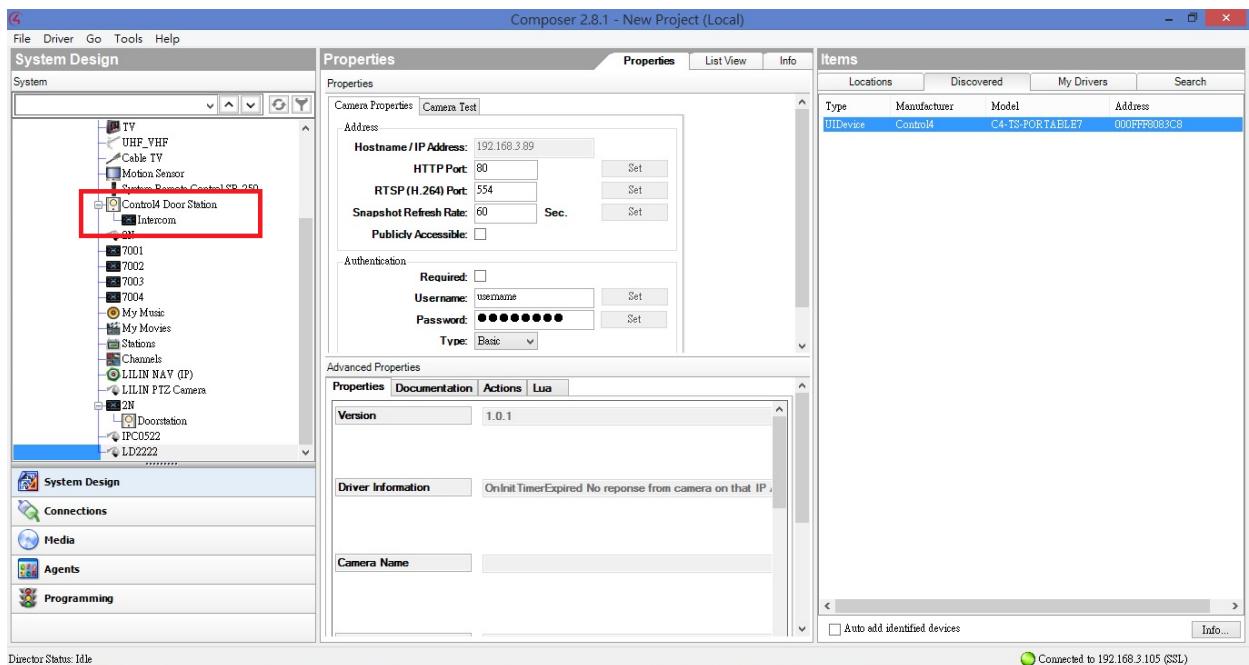
Submit

Extension	Ext-1 M
Remote Username	000FFF8083C8
Remote IP	192.168.3.105
Remote Port	5060

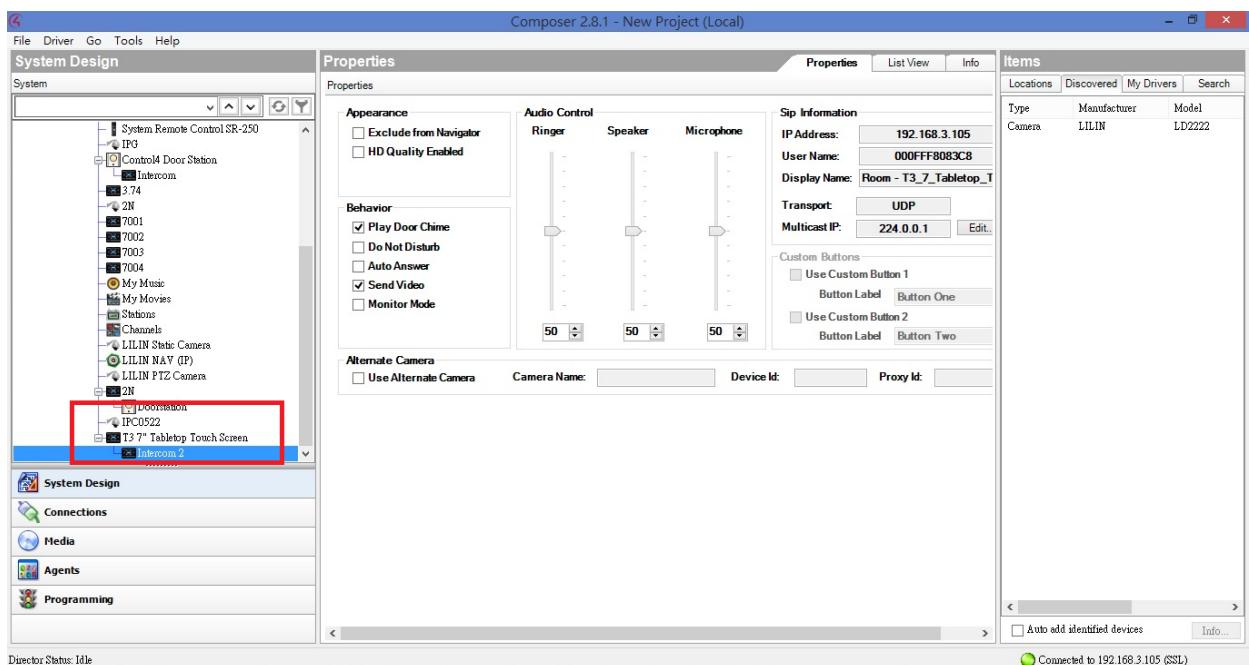
Call Status Ready

Start Call End Call

- Create an Intercom of Control Door Station for LILIN door station.
- Specify username and password for the Intercom



- Create a Tabletop Touch Screen.



- Visit HTML page of LILIN door station.
- Enter the Mac address of the Control4 Tabletop Touch Screen at Remote Username field.
- Enter SIP Domain Server, SIP Port and Audio Port.
- You can then press bell button or click Start Call for calling the Tabletop Touch Screen.

LILIN

Live | Basic Mode | Advance Mode | Language | Logout

System Video / Audio Network Event Notification Maintenance

General	Advance >> Network >> SIP	
General IPv6		
HTTP/RTSP Service	VOIP	Enable <input checked="" type="radio"/> Disable
Multicast	SIP Domain Server	192.168.3.105
IP Address Filtering	Registration Username	7002
DDNS	Registration Password	*****
UPnP	Registration Expires	30
Bonjour	SIP Port	5060
SDDP / Heartbeat	Audio RTP-Port	7078
SNMP		
SIP		

Extension	Ext. 1
Remote Username	000FFF8083C8
Remote IP	192.168.3.105
Remote Port	5060

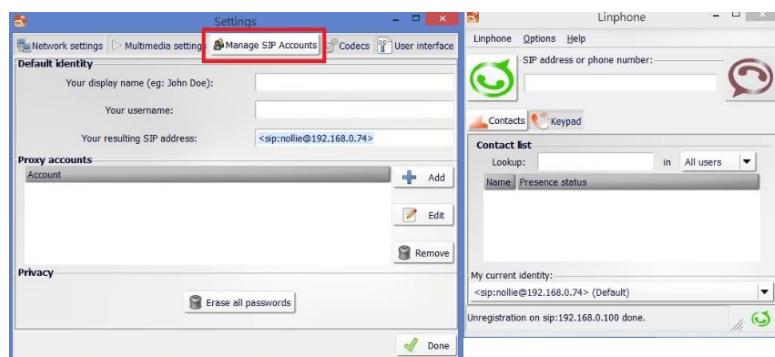
Call Status Ready

3. Use Linphone to verify the connection for an IP camera.

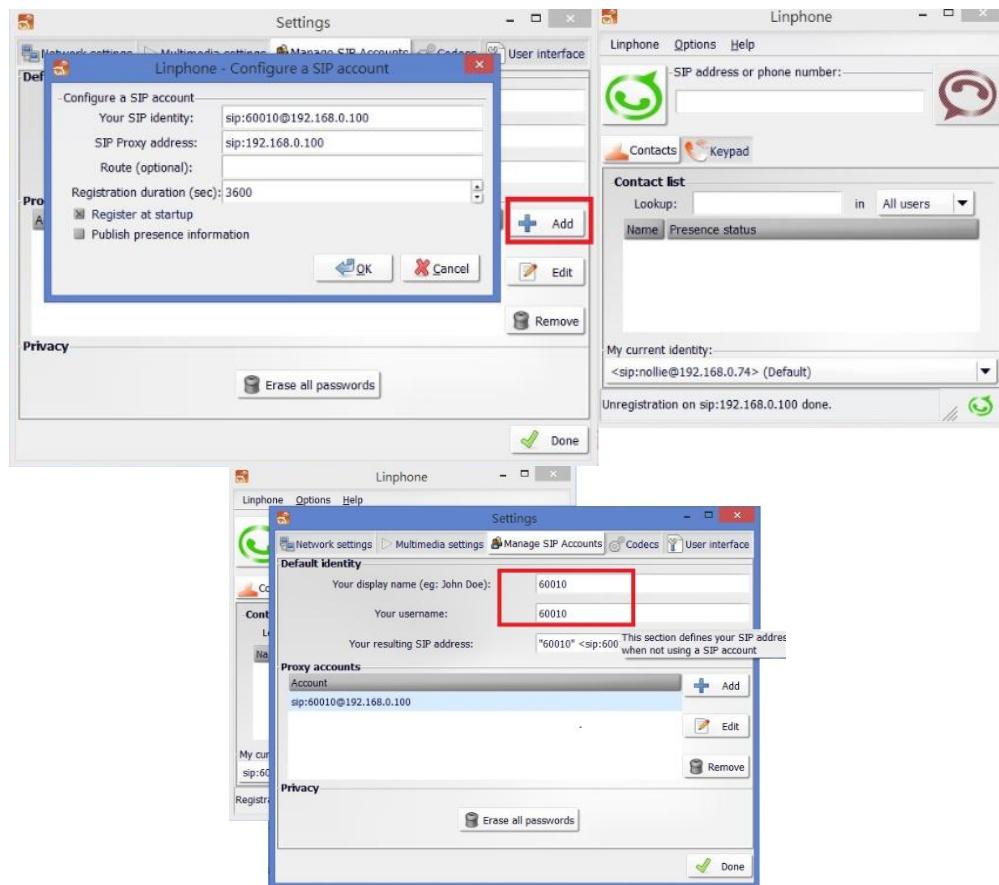
- Click on “Options->Preferences->Manage SIP Accounts”.



- Click on “+ Add” button to add a SIP account.



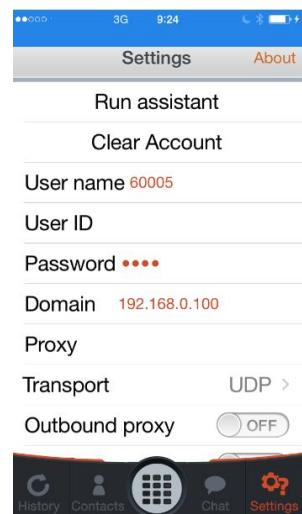
- Type SIP: 60010@192.168.0.100 where 192.168.0.100 is the IP address of Control4 controller and 60010 is the SIP username for Your SIP identity. Type SIP: 192.168.0.100 for Control4 controller's IP address.



- You can now use Linphone to call LILIN cameras or vice versa.



- Linphone on Android or iOS can be used for communicating with LILIN cameras.



Contact

Contact lilin.zendesk.com for technical support.