

2014

control4 GSM Gateway Setup



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control4all
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General

Introduction

This Document describes the integration of the control4all Mobile Gateway into a control4 system.

Features

- Ring to a external Phone when someone is Ringing at the Doorstation with 2-way Audio.*
- Trigger the Door Relay to open the Door. *
- Ring from a external Phone to a Panel or Intercom Group.
- Sending Text Messages, in development ***

Supported Hardware and Software

Currently tested and supported:

- control4 Software Version 2.5.3
- Koch Door Station
- control4all Mobile Gateway MV-370 (Special Firmware)
- control4 In-Wall 7" Touch Screen V2 **

Limitations

* tested with Koch Doorstation

** only inbound calls, outbound audio fails.

***= Requires Driver

Installation

Installing the Hardware

- Unpack the Device
- Open the cover on the Backside
- Locate the SIM Card Slot



- Place the Card that the Edge of the Card is right in front to you
- Close the Cover
- Connect the Antenna, Ethernet and Power Supply.

Configuration

Prepare control4 System

- Launch Composer
- Connect to Controller
- Goto "System Design"
- Add „3rd Party SIP Phone“ Driver to Project
- Enter desired Username and Password (i.e. User "100" and Password "1234")

SIP user name

SIP password

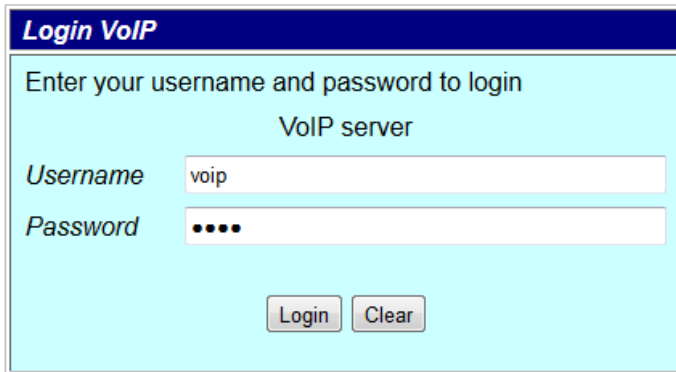
Can send video Can display video

- Click "Apply"

Configure GSM Gateway

Logon to Gateway

- Launch Webbrowser
- Open http://<ip_of_gateway> and the Logon-Window appears (default: 192.168.0.100)



- Enter Default Username “voip” and Password “1234”
- Click “Login”

Network Settings

Verify Network Settings. We recommend to use static IP Address Configuration.

Network Status

MU	WAN Interface	LAN Interface
Type	DHCP Client	-
IP	192.168.3.128	-
Mask	255.255.255.0	-
Gateway	192.168.3.1	-
MAC	00037E00A5A3	-

Route Settings

LAN to Mobile

LAN To Mobile Table

Page: 1 ▾

Item	URL	Call Num	Select
0	*	+417921 [REDACTED]	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Add New

Position:	<input type="text"/>	(0~49)
URL:	<input type="text"/>	Ex: 192.168.0.1, 192.168.0.*
CallNum:	<input type="text"/>	1. e.g. 0911111111 (may enter the whole number) 2. *: 2-stage dialing 3. #: one-stage dialing 4. #d?a?: for example #d123a456 destination number is 123111111 new destination number is 456111111

Position	0
URL	* = any IP allowed to Dial, or i.e. Subnet 192.168.3 only.
CallNum	Number to dial

Mobile to LAN

If you want to be able to make Inbound Calls (i.e. to a Touch-Panel) apply these Settings otherwise leave the Table blank.

Mobile To LAN Table

Page: 1 ▾

Item	CID	URL	Select
0	*	555@192.168.3.113	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Add New

Position: (0~49)

CID: Ex:0911111111, 0911*, *

URL: Ex:192.168.0.1, *:2St

Item	The Rule Number. The First matching is taken
CID	Caller ID. If you put a "*" any call is accepted.
URL	The Format is: <ul style="list-style-type: none"> - <panel_mac_id>@<controller_ip> for a Single Panel - <intercom_group>@<controller_ip> for a Intercom Group

SIP Settings

Service Domain

Service Domain Settings

Realm 1 (Default)	
Active:	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Display Name:	101
User Name:	101
Register Name:	101
Register Password:	••••
Domain Server:	
Proxy Server:	192.168.3.113
Outbound Proxy:	
Status:	Registered

Active	ON
Display Name	“SIP User Name” specified in Composer
User Name	“SIP User Name” specified in Composer
Register Name	“SIP User Name” specified in Composer
Register Password	“SIP User Password” specified in Composer
Domain Server	Leave blank
Proxy Server	Enter IP of control4 controller
Outbound Proxy	Leave blank
Status	After rebooting the Gateway check the status is “Registered”. Otherwise check Username/Password.

DTMF Setting

These Settings are important if you want to be able to trigger the Relay on the Koch-Doorstation. This can be done by pressing “*7” on the called phone.

DTMF Setting

DTMF Transfer Mobile to LAN	
Format	<input checked="" type="radio"/> 2833 <input type="radio"/> Inband <input type="radio"/> SIP Info
Mobile DTMF Detection	
Duration	-1 (0 ~ 999, -1: unlimit, unit: 1s) .
Debounce	80 (40 ~ 500, default: 80 , unit: 10ms).

SIP Response Setting

Due an incompatibility on the control4 SIP implementation make sure that "183 Session in Progress" is set to OFF.

SIP Responses Setting

Response on port busy.	
<input checked="" type="radio"/> 486	Busy here
<input type="radio"/> 503	Service unavailable
SIP Responses	
<input checked="" type="radio"/> ON <input type="radio"/> OFF	180 Ringing (Force to ON, if 183 was OFF.)
<input type="radio"/> ON <input checked="" type="radio"/> OFF	183 Session Progress
Dial Peer	
<input type="radio"/> ON <input checked="" type="radio"/> OFF	<input type="text" value="192.168.3.113:5060"/> (Dial Peer for XP)
Call data to server	
<input type="radio"/> Yes <input checked="" type="radio"/> No	Send Call Events to Data Server
Data ID	<input type="text" value="Mv-00A5A3"/> -X
Data Server	<input type="text" value="192.168.0.156:5020"/> (URL:Port)

All other Settings on the Gateway can be left as default.

Troubleshoot

<p>Check Mobile Status</p>	<p>Mobile Status</p> <p>2014-06-13 17:01</p> <table border="1"> <tr><td>Operation Station:</td><td>22801: SWISS GSM</td></tr> <tr><td>SIM Card ID:</td><td>228013511191335</td></tr> <tr><td>Signal Quality:</td><td>16</td></tr> <tr><td>Registration State:</td><td>0, 1</td></tr> <tr><td>GSM S/N:</td><td>IMEI: 35815600362146-1</td></tr> <tr><td>Motion State:</td><td>Standby</td></tr> <tr><td>Incoming URL:</td><td></td></tr> <tr><td>Incoming Name:</td><td></td></tr> <tr><td>Outgoing IP:</td><td></td></tr> <tr><td>Incoming Mob:</td><td></td></tr> <tr><td>Outgoing Mob:</td><td></td></tr> </table>	Operation Station:	22801: SWISS GSM	SIM Card ID:	228013511191335	Signal Quality:	16	Registration State:	0, 1	GSM S/N:	IMEI: 35815600362146-1	Motion State:	Standby	Incoming URL:		Incoming Name:		Outgoing IP:		Incoming Mob:		Outgoing Mob:	
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