

# Connecting with Sunshing

*Sunshing* (<http://www.sunshing.com.tw/>) offers telephone service using the VoIP standard SIP. This service allows users to make or receive VoIP calls to or from VoIP telephone numbers, and to make VoIP calls to PSTN telephone numbers. This document explains how to use OnDO PBX with Sunshing.

- 1. SETTING UP A SUNSHING ACCOUNT ..... 2**
  
- 2. ARS CONFIGURATION..... 2**
  - 2.1. General Settings ..... 4**
  
  - 2.2. Pattern Settings ..... 4**
    - 2.2.1. Incoming Call Pattern..... 4
    - 2.2.2. Outgoing Call Pattern..... 5
  
  - 2.3. Priorities ..... 5**
  
- 3. ONDO SIP SERVER DIAL PLAN SETTINGS ..... 6**
  
- 4. ONDO SIP SERVER CONFIG SETTINGS..... 6**
  
- 5. NOTES FOR DIAL PLAN SETTINGS..... 7**

## 1. Setting Up a Sunshing Account

After signing up for a sunshing account, you will have your own telephone number, user id, password, and SIP proxy server information for the account you have just set up. Throughout this document, the following demo account will be used to guide you through setting up your Sunshing ITSP account to work with OnDO PBX and SIP server (OSS).

<b>Telephone number</b>	2100904
<b>UserID</b>	2100904
<b>Password</b>	*****
<b>SIP Proxy server</b>	s1.sunshing.com.tw

## 2. ARS Configuration

Most of the call management rules for outgoing and incoming calls through outside lines are set at ARS (Automatic Route Selection). Defining rules enables ARS to make optimal use of outside lines and your PSTN gateways.

For more information on ARS settings, please refer to the OnDO PBX Administrator's Guide (Advanced).

To define ARS settings for your account:

- 1) Choose **[ARS]** in the PBX Admintool.
- 2) Type a route name in the entry field.
- 3) Click **[Create a new route]**. Your new route will appear in the list above.
- 4) Click the **[Edit]** button next to your new route to define conditions.

Please see the following sections of this document for ARS settings relevant to Sunshing's ITSP service.

# ARS Settings

Brekeke

Current user: sa

### General

Route name	Sunshing
Description	Sunshing
Disabled	<input type="checkbox"/>

Register URI	sip:2100904@s1.sunshing.com.tw	User	2100904
Realm		Password	xxxx
Proxy Address	s1.sunshing.com.tw	Session interval (ms)	

### Patterns

new

Direction	Matching patterns	Deploy patterns
OUT Delete	From	"2100904" <sip:2100904@s1.sunshing.com
	To	sip:9{(.7.)}@
	Ignore Priorities smaller than No.	1
	DTMF	
		RTP relay: default Block SDP: no Block dtmf-relay: no

Direction	Matching patterns	Deploy patterns
IN Delete	From	
	To	sip:2100904@
	Ignore Priorities smaller than No.	1
	DTMF	
		RTP relay: default Block SDP: no Block dtmf-relay: no

### Priorities

new

No.	Direction	Max Sessions (-1=unlimited)	Priorities	
1	IN/OUT	-1	100	Delete

Save Cancel

Your changes will be in effect after restart.

## 2.1. General Settings

In the **[Register URI]** field, enter your user ID/number and the server name in the format shown above. Enter the server/proxy address, your User ID/number, and password as assigned to you in the appropriate fields.

<b>Register URI</b>	sip:2100904@s1.sunshing.com.tw
<b>Realm</b>	
<b>Proxy Address</b>	s1.sunshing.com.tw
<b>User ID/Number</b>	2100904
<b>Password</b>	*****

## 2.2. Pattern Settings

### 2.2.1. Incoming Call Pattern

<b>Direction</b>	IN
<b>Matching patterns: From</b>	
<b>Matching patterns: To</b>	sip:2100904@
<b>Deploy patterns: From</b>	
<b>Deploy patterns: To</b>	2000
<b>Ignore Priorities smaller than No.</b>	1
<b>Deploy patterns: DTMF</b>	
<b>RTP relay</b>	on(G.711 u only)

To direct incoming calls from PSTN callers or VoIP callers, enter your user ID in the **[Matching patterns: To]** field, in the format shown above. All calls terminated on your user ID/number will be directed to the extension set in the **[Deploy patterns: To]** field.

Special note: Due to current government regulation, there is no inbound service available from PSTN numbers.

### 2.2.2. Outgoing Call Pattern

<b>Direction</b>	OUT
<b>Matching patterns: From</b>	
<b>Matching patterns: To</b>	sip:9(.{7,})@
<b>Deploy patterns: From</b>	"2100904"<sip:2100904@s1.sunshing.com.tw >
<b>Deploy patterns: To</b>	sip:\$1@s1.sunshing.com.tw
<b>Ignore Priorities small than No.</b>	1
<b>Deploy patterns: DTMF</b>	
<b>RTP relay</b>	on(G.711 u only)

This rule handles calls made by OnDO PBX users via Sunshing's ITSP service: dialing 9 first to calls placed outside of the PBX. In the **[Matching patterns: To]** field, "9" represents the dialing prefix, and (.+) represents any number of dialing digits. The **[Deploy patterns: To]** will automatically remove the prefix, 9, from all outgoing calls.

### 2.3. Priorities

<b>Direction</b>	IN/OUT
<b>Max sessions</b>	-1
<b>Priorities</b>	100

In this example, all priority settings have been left at their respective default values. To give this rule a higher priority, set its Priority to a number with a lesser value. In the **[Max sessions]** field, -1 indicates an unlimited amount.

### 3. OnDO SIP Server Dial Plan Settings

The Dial Plan can accommodate the unique requirements of each VoIP service provider.

For outbound calls:

Matching Patterns	Deploy Patterns
<pre>\$request=^INVITE to=(s1\.sunshing\.com\.tw) \$port=15062</pre>	<pre>\$auth=off</pre>

✓ *This Dial Plan needs to be placed before "to PBX1" (default dial plan).*

For inbound calls:

Matching Patterns	Deploy Patterns
<pre>\$addr=^202\.55\.224\.236 \$request=^INVITE to=(.*)</pre>	<pre>\$target=localhost:15060 To=%1 \$auth=off</pre>

✓ *This Dial Plan needs to be placed before "to PBX" (default dial plan).*

### 4. OnDO SIP Server Config Settings

Under the Configuration settings choose System and in the Network section put the Internet side address of your Broadband router. This settings is necessary when OnDO SIP Server is behind a router

Interface address 1	197.166.8.99 (example)
---------------------	------------------------

- *If your OnDO SIP Server is behind a router please set the port forwarding as described below:*

First, you will need to set port forwarding at the router located between the global network and your local network to forward packets with specific destination port numbers to the OnDO SIP Server. The ports you need to forward can be as follows:

```
Config > SIP [(General)] > SIP exchanger – Local Port [UDP]
Default value: 5060
Config > RTP > RTP exchanger – From Minimum Port to Maximum Port [UDP]
Default value: 10000-10999
```

## 5. Notes for Dial Plan Settings

- ◆ This Dial Plan allows calls from the Sunshing line to pass through without authentication from OnDO SIP Server. When INVITE authentication is turned off at the **[Config]** menu in OnDO SIP Server, this Dial Plan setting can be omitted.
- ◆ Note that you may need to update Dial Plan rules that include Sunshing's SIP Server IP address. Sunshing may change their Server's IP address at any time.
- ◆ In this tutorial guide, **[RTP relay]** is set for "on (G.711 u only)" in ARS deploy pattern setting. In some cases, setting **[RTP relay]** = "off" may work; however, we have not tested all of the applicable environments.