

Fanvil_Metaswitch Config Guide

Version: <1.0>

Release date: <2018-11-30>

Table of Contents

Tabl	e of C	Contents	2		
1	Intro	3			
	1.1	Overview			
	1.2	Product Type	3		
	1.3	Target Audience	3		
2	How to use				
	2.1	Provision			
	2.2	Intercom	6		
	2.3	Feature Key Synchronization (Feature Sync)	9		
	2.4	Shared Call Appearance	10		
	2.5	Call Park			

1 Introduction

1.1 Overview

This document mainly describes how the fanvil phone works with the Metaswitch server.

1.2 Product Model

This document is suitable for Fanvil X1/X1P, X2C, X2/X2P, X3S/X3SP/X3G, X4/X4G, X3U, X4U, X5C, X5U, X6U, X5S, X6, X7, X7C, X7V, X7A, X210, X210i, i10, i10V, i52T, H1,H2S,H3, H5, H6, i10, i10V, i11, i12, i16, i18S, i22V, i25V,i25T,i20S, i30, i31S,i23S, i32V, i33V, PA2, PA3, iW30, C400, C600,etc..

1.3 Target Audience

This document is targeting people who want to use Fanvil Phones registered on Metaswitch server.

2 How to use

2.1 Provision

2.1.1 Configure on Metaswitch server

- 1) Logon your MetaView Web.
- 2) In the upper right corner, enter the number you want to upgrade, such as 1234, and click Search.



3) Click **SIP Phones** at the bottom of the page, and then click **Add New Phone**.

Open in CommPortal						
SIP Phones						
Model	MAC Address	Description				
This subscriber has	s no phones assigned to ther	n.	*			
-			×			
Add New Phone	+ Configure phone prof	îles	Assign Existing Phone			

4) Enter the phone **MAC Address** in the pop-up box, configure **Description**, set **authenticate until** date, etc., click **Apply**.

MAC Address:	0c:38:3e:1b:e0:06
Description:	Fanvil X4
Phone Model:	Determined by Endpoint Pack
Assigned to Line?	1760) 290 9643
Phone authenticated at:	
Authenticate until:	00 V 00 V 10/17/2018
now	

5) Click **Configure phone profiles** and configure the phone.

di d	<u> </u>		
SIP Phones			
Model	MAC Address	Description	
?	<u>0C:38:3E:1B:E0:06</u>	Fanvil X4	
Add New Phone +	Configure phone profiles	Resynchronize phones A	lss

6) Creat New Profile.



7) Select the phone of the corresponding model and change the configuration.

A Fanvil X6 - Edit settings					
	>Programmable Keys - Soft Key >Programmable Keys - DSS Key >Features >Preferences >Line 1 User Display Name • >Ring Tone >VoiceMail >Line 2 >Line 3 >Line 4 >Line 5 >Line 6				

2.1.2 Provision

You can choose a different method to provision. Here are two examples, one for a large number of phones phone and one for a single phone.

2.1.2.1 Redirect Provision (Quantity in batches)

- 1) Logon your Redirect Server (Take Fanvil FDPS as an example).
- 2) Go to **Group** page, add a group.
- 3) Set the Metaswitch provision configuration. In the Phone Flash module, set Server Address to your Metaswitch provision URL, and set Protocol Type to corresponding protocol, then set Update Mode to Update After Reboot, as shown in the following picture. Save the changes.

Phone Flash		
Server Address	http://matterhorn.metaswitch.com/sip-ps	
Configuration File Name		
Protocol Type	HTTP	•
Update Interval	1	
Update Mode	Update After Reboot	•

- 4) Go to **Device** page, import your phone mac list on Device.
- 5) Reset phone. After the phone boot up, it will redirect to server to ask your phone configuration named use phone MAC address.

2.1.2.2 Provision from Phone (Single)

- 1) Logon webpage of phone, go to System>>Auto Provision>>Static Provisioning Server.
- Set Server Address to your Metaswitch provision URL, and set Protocol Type to corresponding protocol, then set Update Mode to Update After Reboot, as shown in the following picture. Save the changes.

SIP Plug and Play (PnP) >>	
Static Provisioning Server >>	
Server Address	http://matterhom.metasy
Configuration File Name	http://matterhorn.metaswitch.com/sip-ps
Protocol Type	НТТР 🔻 🕜
Update Interval	1 Hour 📀
Update Mode	Update After Reboot 🔹 📀

3) Reboot the phone. After reboot, phone will get the configuration on the server.

2.2 Intercom

2.2.1 Configure Server Type Configuration on the phone.

 Configure on phone web page: Log on phone web page, navigate to Line >> SIP >> Advanced Settings page, Set Specific Server Type to Metaswitch, like the picture.

	SIP Dial Plan	Basic Settings	RTCP-XR	SIP Hotspot
	Click To Talk		Enable l	Jse Inactive Hold
> System	User Agent		🕜 Enable N	1issed Call Log
	Use Quote in Display Name		Respons	e Single Codec
> Network				
	Use Feature Code			
> Line	Enable DND		🕜 DND Dis	abled
	Enable Call Forward Unconditional		📄 🕜 Disable Uncondi	Call Forward tional
Phone settings	Enable Call Forward on Busy		🕜 Disable	Call Forward on Busy
	Enable Call Forward on No Answer		Ø Disable Answer	Call Forward on No
> Phonebook	Enable Blocking Anonymous Call		Oisable Call	Blocking Anonymous
Coll logs	Enable Send Anonymous		🕜 Disable	Send Anonymous
/ Call logs	Enable Call Waiting		🕜 Disable	Call Waiting
Function Key	Specific Server Type	Metaswitch 🔻 🙆	DNS Mo	de
			Keep Ali	ve Type

2) Configure in Configuration template file:

Note: The value of "37" is for Metaswitch server type and it is 37 in template by default.

2.2.2 Configure Function Key to Intercom Key

There are three ways to configure Function Key to Intercom Key.

 Configure on phone web page: Log on phone web page, navigate to Function Key >>
 Function Key page, set key Type to Memory Key and set Subtype to Intercom, set
 intercom number in Value.

	Function Key	Softkey					
> System	DSS Page Settings DSS LCD Page S	ettings A	dd New Page	Dele	ete	Page2	¥
› Network	DSS Home Page		Apply				
› Line	Function Key Settin Reset BLF Trans	gs fer Type Ma	ake a New Call	▼ App	Ыу		
> Phone settings	Кеу	Туре	Name	Value	Subtype	Line	PickUp Number
	DSS Key 1-1	Line 🔻			None 🔻	SIP1 Y	
> Phonebook	DSS Key 1-2	Line 🔻			None 🔻	SIP2 Y	
	DSS Key 1-3	Line 🔻			None 🔻	SIP3 Y	
⊁ Call logs	DSS Key 1-4	Line 🔻	-		None T	SIP4 Y	
	DSS Key 1-5	Memory Key 🔻		9642	Intercom 🔻	Auto 🔻	
> Eunction Koy	DSS Key 1-6	None 🔻			None •	Auto 🔻	
 Function Key 	DSS Key 2-1	None 🔻			None 🔻	Auto 🔻	
	DSS Key 2-2	None 🔻			None 🔻	Auto 🔻	
	DSS Key 2-3	None 🔻			None 🔻	Auto 🔻	
	DSS Key 2-4	None 🔻			None 🔻	Auto 🔻	
	DSS Key 2-5	None 🔻			None 🔻	Auto 🔻	

 Configure on MetaView Web page: navigate to SIP Phones>> Configure phone profiles>> Programmable Keys - DSS Key, set Key Type to Intercom Key, set Dss Key Value to Intercom number.

♥ Programmable Keys - DSS Key	ý	
>Key Capabilities		
✓Key 1		
*Key Type	Intercom	v
Line	Line 1	v
DSS Key Value	9642	
Label		

3) Configure in Configuration template file:

<phone_config_module></phone_config_module>	
<function_key></function_key>	
<function_key_entry></function_key_entry>	
<id>Fkey1</id>	
<type>1</type>	
<value>\$number@\$line/i</value>	
<title></title>	

Note: set \$number to intercom number, set \$line to sip line, such as "1" for SIP 1. "i" is intercom type.

2.2.3 How to use

Press the function key you configured to make an intercom call and press again to cancel the call When phone is in idle.

2.3 Feature Key Synchronization (Feature Sync)

To use Feature Sync feature, you need Enable Feature Sync on phone or MetaView Web page.

There are three ways to configure Feature Sync Configuration:

 Configure on phone web page: Log on phone web page, navigate to Line >> SIP >> Advanced Settings page, tick Enable Feature Sync.

	SIP SIP Hot	tspot Dial Plan	Action Plan	Basic Settings	RTCP-XR
> System	Keep Alive Type: Keep Authentication:		Kee Blo	p Alive Interval: cking Anonymous Call:	30;
> Network	User Agent:		🕜 Spe	cific Server Type:	COMMON T
> Line	SIP Version: Local Port:	RFC3261 V	And Rine	nymous Call Standard: g Type:	None 🔻 🤇 Default 🔻 🥝
> Phone cettings	Enable user=phone:		Use	Tel Call:	
7 Phone Settings	Enable Rport:		Lite	bie moder.	0
> Phonebook	DNS Mode:	A v	Ena	ble Long Contact:	. 0
> Call logs	Enable Strict Proxy: Use Quote in Display		Con	ivert URI: ble GRUU:	✓ Ø
› Function Key	Name: Sync Clock Time:		Ena	ble Use Inactive Hold:	
> Application	Caller ID Header: Enable Feature Sync:	PAI-RPID-F T	Use wai Ena	182 Response for Call ting: ble SCA:	
. Courtin	CallPark Number:		🔹 🕜 Ser	ver Expire:	e
Security	Enable Click To Talk:		Ena	ble Chaport:	

 Configure on MetaView Web page: navigate to SIP Phones>> Configure phone profiles>>Line N>>Advanced Settings, select Enable Feature Sync. (It enables Feature Sync by default on MetaView Web).

VQ name 🥑		
VQ address O		
VQ Port 🗿	5060	
VQ Http/Https server		
Enable Feature Sync	DisabledEnable	

3) Configure in Configuration template file:

9

<sip_config_module></sip_config_module>
<sip_line_list></sip_line_list>
<sip_line_list_entry></sip_line_list_entry>
<id>SIP1</id>
<feature_sync>1</feature_sync>

2.4 Shared Call Appearance

To use Shared Call Appearance feature, you need Enable SCA on phone.

There are three ways to configure Feature Sync Configuration:

 Configure on phone web page: Log on phone web page, navigate to Line >> SIP >> Advanced Settings page, tick Enable SCA.

	SIP Dial Plan	Basic Settings	RTCP-XR	SIP Hotspot
> System	Enable Call Waiting		🕜 Disable (Call Waiting
› Network	Specific Server Type	3CX 🔻 🔇	DNS Moo Keep Aliv	le [ve Type [
> Line	Use VPN Use STUN	✓Ø	Keep Aliv Sync Clo	ve Interval
> Phone settings	Convert URI DTMF Type		Enable S Session	ession Timer Timeout
Newsback	DTMF SIP INFO Mode	Send 10/1 🔻 🕜	Enable R Enable P	port RACK
Phonebook	SIP Version	RFC3261 V	Keep Aut	hentication
> Call logs	Caller ID Header	PAI-RPID- V	Auto TCF	
Eustion Koy	Enable user=phone	 Ø 	Enable F	RUU
· Function Key	Enable SCA		BLF Serv	er [
	Enable BLF List		BLF List	Number

2) Configure on MetaView Web page: Set all below items to true.

Each of the following 3 settings must be true. Each pair is the same setting accessed from different interfaces. 1. This setting must be > 1<u>MVWeb</u> Subscriber > Connection > Maximum simultaneous registrations **MVE** Line > Maximum simultaneous registrations (1 - 32) 2. This must be enabled **MVWeb** Subscriber > Connection > User phone number for SIP user name (CFS) **MVE** Subscriber Line > Use DN for identification 3. This must be enabled **MVWeb** Subscriber > Services > Line State Monitoring **MVE** Subscriber Line > Multi Party Call Services > Line State Monitoring

3) Configure in Configuration template file:

<SIP_CONFIG_MODULE> <SIP_Line_List> <SIP_Line_List_Entry> <ID>SIP1</ID> <Enable_SCA>1</Enable_SCA> </SIP_Line_List_Entry> </SIP_Line_List> </SIP_CONFIG_MODULE>

2.4.1 DSSKEY—Private hold

 Configure on phone web page: navigate to Function Key>> Function Key, Set Key Type to Keyevent, set Subtype to Private Hold.

	Function Key	Softkey					
System							
Network	DSS Page Settings DSS LCD Page S	Settings Ac	d New Page	Dele	te	Page2	•
Line	DSS Home Page	No	ne 🔻				
Phone settings	Function Key Settin	igs					
Phonebook	Keset BLF Trans	Type Ma	ke a New Call Name	Value App	Subtype	Line	PickUp Numb
Call logs	DSS Key 1-1 DSS Key 1-2	Line			None None	SIP1 V SIP2 V	
	DSS Key 1-3	Line •			None •	SIP3 T	
Function Key	DSS Key 1-4 DSS Key 1-5	Key Event V			Private Hold V	Auto 🔻	
	DSS Key 1-6 DSS Key 2-1	None			None None	Auto 🔻	

2) Configure on MetaView Web page: navigate to SIP Phones>> Configure phone profiles>> Programmable Keys - DSS Key, Set Key Type to Private Hold.

♥ Programmable Keys - DSS Key	,	
>Key Capabilities		
✓Key 1		
*Кеу Туре	Private Hold	v 🔒
Label		
Key 2		

2.4.2 DSSKEY—Public hold

The soft key-Hold is the Public hold key during the call.

2.4.3 LED Status Instructions for Metaswitch SCA

State	Local	Remote
Idle	off	off
Seized(dialing)	Green	Red
Progressing(trying/alerting)	Green	Red
Alerting(ring)	Blink Green(Fast)	Blink Green(Fast)
Active(talking)	Green	Red
Held(holding)	Blink Green(Slow)	Blink Red(Slow)
Private Held	Blink Yellow(Slow)	Red
Bridge active	Green	Red
Bridge Held	Blink Green(Slow)	Blink Red(Slow)

2.5 Call Park

This mainly explains how to configure the function keys to park and retrieve calls after the Fanvil phones are registered to the Metaswitch server.

- 1) First at all, you need know your park / retrieval code and park orbits number.
- 2) Configure
- a) Logon webpage of the phone, go to Function Key >> Function Key page, set a dsskey's Type to Memory Key, and the Subtype to Call Park. Set the Value of the Function Key to your park orbits number (such as 100), like the picture. Called this dsskey to dsskey A.

3	LING .		THORE .	0208010	DEIMOLI	5.
DSS Key 4	Line 🔻		None 🔻] 7602909642@ ▼	DEFAULT	۷
DSS Key 5	Memory Key 🔻	100	Call Park 🔻	7602909642@ 🔻	DEFAULT	۲

b) Logon webpage of the phone, go to Function Key >> Function Key page, set a dsskey's Type to Memory Key, and the Subtype to Call Park. Set the Value of the Function Key to "retrieval code + your park orbits number", as in the picture. Called this dsskey to dsskey B.

Page2 F	Vage3 Pai	ge4 Page5 Value	Subtype None None	T	Line 12060000007(¥	Delete Media	PickUp Number	r Icon Color Default Green
• • •	Name	Value	Subtype None None	T	Line	Media DEFAULT	PickUp Number	r Icon Color
• []	None None	Y T	1206000007(¥	DEFAULT	•	Default Green
•]	None	v	+00161024200 -	DESAULT		
					T3310102423; *	DEFAULT	T	Default Green
•			None	۳	026@SIP3 •	DEFAULT	•	Default Green
v]	None	v	7602909642@ ▼	DEFAULT	•	Default Green
ey 🔻][100	Call Park	v	7602909642@ 🔻	DEFAULT	•	Default Green
ey 🔻		8302100	Call Park	۲	7602909642@ ▼	DEFAULT	•	Default Green
	▼ 3y ▼ 3y ▼	▼	▼ 100 sy ▼ 100 sy ▼ 100 *302100	▼ ▼ ■		▼ None ▼ 7602909642@ ▼ ay ▼ 100 Call Park ▼ ay ▼ *302100 Call Park ▼ ay ▼ *302100 Call Park ▼	• None • 7602909642@ • DEFAULT •y • 100 Call Park • 7602909642@ • DEFAULT •y • 100 Call Park • 7602909642@ • DEFAULT •y • 1302100 Call Park • 7602909642@ • DEFAULT	• •

- 3) How to use.
- a) Action: Make a call from the Phone to Phone A.

---Confirm: There were two ways audio between Phone and Phone A.

- b) Action: Press dsskey A on the Phone.
 - ---Confirm: Phone A is parked on your parked number, and the phone now is on idle.
 - ---Confirm: The LED of dsskey A changes from solid green to blink red.
- c) Action: Press dsskey B on the Phone.

---Confirm: The phone retrieve the call with Phone A.

---Confirm: There were two ways audio between Phone and Phone A.

--- Confirm: The LED of dsskey A changes from blink red to solid green.