

# 方位 BLF List 功能使用说明

版本: <1.1>

发布日期: <2018-5-26>



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#### 1.1 前言

本文档介绍了 Fanvil 话机的 BLF List 功能以及通过配置 Broadworks 和 Fanvil 话机来 使用此功能。

所有 Fanvil 型号的话机,比如 Fanvil X3S、X4 、X5S、X6、X7、X7C、X210、X210i、 XU 系列、C600、D900 等均支持此功能,并且配置方法也都一样。

#### 1.2 Fanvil 话机的 BLF List 功能简介

BLF (Busy Lamp Field)是通过对话机的号码进行订阅的方式获取号码的通话状态。 在话机的 dsskey 上配置需要订阅的号码,当被订阅的号码的通话状态发送变化时,话机可 以通过点灯的方式提示订阅者。配置一个 BLF 号码一次只能监控一个号码。

BLF List 则可以监控多个号码。用户通过 PBX 服务器或者其他方式设置要监控或者要 订阅的号码,话机可以将设置的这些号码自动配置到对应的 dsskey 上。被订阅的这些号码 中任何一个号码的通话状态发生变化时,订阅者都可以收到相应的提示。也就是说 BLF List 是 BLF 订阅功能的一个集合,方便用户快速的订阅多个号码的状态。

BLF List 功能的实现需要话机和 PBX 服务器相互配合。目前 Fanvil 话机已经验证过 的可以完美配合的 PBX 服务器有 BroadSoft 的 BroadWorks, Fortinet 的 FortiVoice 以及 VoipSwitch 等。其他 PBX 服务器如果支持 BLF List 功能应该也可以支持,只是目前还没有 进行测试验证。在下面的章节中,我们以 BroadWorks 举例说明如何配置和使用 Fanvil 话 机的 BLF List 功能。

### 1.3 在 BroadWorks 上配置 BLF List 服务

1. 登录 BroadWorks 网页配置界面,如下图所示。

Group		Welcome (Logout)
Options:	Profile	
Resources	Basic	Advanced
_ Services Acct/Auth Codes Call Center	Users Add, modify, or remove users.	Call Processing Policies Configure group-level Call Processing Policies
Meet-Me Conferencing	Profile View or modify your group profile information.	Communication Barring Authorization Codes Configure group-level Communication Barring authorization codes.
	Change Password Change your password	Dial Plan Policy Configure group-level Dial Plan Policy
	Administrators Add, modify, or remove group administrators and department administrators.	Dialable Caller ID Automatically prepend digits to the incoming caller ID of public calls so the caller ID is presented in dialable format
	Announcement Repository Manage the announcements for a group	
	Departments Add, modify, or remove departments in your group.	
	Schedules Add, modify, or remove schedules.	

2. 点击"Users"进入到 broadsoft 账号选择界面,如下图所示。

💎 broadsoft		Help - Home
Group		Welcome [Logout]
Options: Profile Resources	- Users Ad a new user or manage existing users in your department or group.	
Services Acct/Auth Codes Call Center	OK Add Cancel Enter search criteria below	
	User ID V Starts With V +	Search
	CK Add Cancel	

3. 如果已经添加过 broadsoft 账号,点击 "Search"显示如下图的账号列表界面,选择要 设置的账号比如 FanvilUser1,进行步骤 5。如果还没有添加过 broadsoft 账号,点击 "Add" 进行下面的步骤 4 新添加一个 broadsoft 账号。

							W	alcome
	licore							
5	Users							
165	Add a new user or manage exis	ting users in your department or gr	oup.					
Codes	OK Add	Cancel						
er	Enter search criteria beig	W						
Conferencing	11	Charles 1450						Ones
	UseriD	Starts with	1 🔻				+	Searc
	User ID	Last Name	First Name	Phone Number	Extension	Department	In Trunk Group	
	0323300485	boss	wang		0485			
	FanvilBTBCUser1	FanvilBTBCUser1	FanvilBTBCUser1	+1-2404987345	7345			
	FanvilBTBCUser2	FanvilBTBCUser2	FanvilBTBCUser2	+1-2404987346	7346			
	FanvilUser1	FanvilUser1	FanvilUser1	+1-2404987341	7341			
	FanvilUser2	LUser2	FUser2	+1-2404987342	7342			
	FanvilUser3	FanvilUser3	FanvilUser3	+1-2404987343	7343			
	FanvilUser4	FanvilUser4	FanvilUser4					
	Eanvill Iser7	Fanvill Iser7	Fanvill Iser7					
	FanvilUser8	FanvilUser8	FanvilUser8					
	FanvilUser9	FanvilUser9	FanvilUser9					
	FanvilUserA	FanvilLIserA	FanvillIserA					
	FanvilUserB	FanvilUserB	FanvilUserB					
	FanvilUserC	FanvilUserC	FanvilUserC					
	FanvilUserD	FanvilUserD	FanvilUserD					
	FanvilUserE	FanvilUserE	FanvilUserE					
	FanvilUserF	FanvilUserF	FanvilUserF					
	FanvilUserG	FanvilUserG	FanvilUserG					
	FanvilUserH	FanvilUserH	FanvilUserH					
	FanvilUser	FanvilUserl	FanvilUserl					
	FanvilUserJ	FanvilUserJ	FanvilUserJ					
				[ Page 1 of 2 ]			Novt Last	

4. 添加一个新的 broadsoft 账号,如下图所示。

<u>Group</u>		Welcome [Logo
antian au		
Diptions:	Users Add	
Resources	Add a new user to your group.	
Services	OK Cancel	
Acct/Auth Codes		
Meet-Me Conferencing	Senire Provider Internerability Group Fanyl	
Utilities	*UserID: 201487341 @ as inn1 broadworks net Y	
	* Las Name Canvill Leart * First Name Canvill Cert	
	* Calling Ling ID as Many: Convoit Load	
	Coming Link to Each Varian. [PallVIIUSET]	
	Name Dialing First Name	
	Calling Line ID Phone Number	
	* Historana Last Name	
	- Initial Password.	
	Department None v Language English v	
	Time zone (GM1-04-00) (US) Eastern Time    Network Class of Service: None	
	- Additional Information	
	Title:	
	Pager Mobile	
	E-mail: YahoolD	
	Location	
	Address	
	City: State/Province: - Select -	
	Zio/Postal Code Country	

5. 进入到选择的账号的配置界面,如下图显示 FanvilUser1 的账号设置界面。

<b>broadsoft</b> Group > Users : FanvilUser1		Help - Home Welcome (Logau)
Options:  Profile Incoming Calls	Profile Basic	Advanced
Call Control Client Applications	Profile Display and configure profile information such as your name, department and address.	Assign Services Assign or unassign services and service packs.
Messaping Collaborate Met-Me Conferencing Littles	Addresses Addresses allows you to view and maintain your phone numbers and other identities that are used to make and neover calls. Announcement for a user Pasawords Set web access and portal passwords. Schedules Add, modify, or remove schedules.	Assign or unasign user to a call center as agent. Call Application Policies Select Call Control Applications enabled for a user. Call Policies Configure user Call Policies Call Policies Configure user-kevel Call Processing Policies Comfigure Server-kevel Call Processing Policies Communication Barring Authorization Codes Communication Barring Authorization Codes Configure Server-Kevel Call Processing Policies Configure Control Call Policies Control Call Policies Configure Control Call Policies Configure Control Call Policies Configure Control Call Policies Configure Control Call Policies Control Call Policies Control Control Call Policies Control Control Call Policies Control Call Policies Control Call Policies Control Call Policies Control Control Call Policies Control Call Policies Control Call Policies Control Call Policies Control Control Call Policies Control
		Device Policies Configure user Device Policies.

6. 点击"Client Applications",进入到如下图所示界面。

Group > Users : FanvilUser1		Heip - Ho Welcome [Logs
Incorp. Users : FerrvilUser1  tons:  Folle Incoming Calls Outpoint Calls Call Control Cellent Applications Messaging Collaborate Meet Me Conferencing Utilities	Client Applications Basic Busy Lamp Field Allows monitoring user phone status via a SIP Atlendant Console Phone Conference Room is a specialized application designed for small to medium sized meeting/huddle rooms to include physical rooms in the My Room audo, video, and content experience.	Welcome         Logo           Advanced
		Broad/Works Agent Broad/Works Agent is a client that enables users to perform typical call center agent activities, call control, basic enouting and require configuration. Also displays which users are call center supervisors for the agent activities and activities and activities are call center agent activities. Call control, basic activities are called activities and activities are called activities and activities and activities and activities and activities and activities are called activities and activities and activities and activities and activities are called activities and activities and activities and activities and activities and activities and activities and activities are called activities and activities activities and activities activities activities activities and activities activities activities activities and activities activities activ

7. 点击"Busy Lamp Field"进入到 BLF List 设置界面,如下图所示。

				Help - Home
				Welcome [Logout]
Busy Lamp Field Busy Lamp Field allows you to create a list O OK Apply Cance LIST URI: sip. <u>bLF1</u> @ Enable Call Park notification	of users to monitor via your SIP Attendant Co 9 @ as ic	nsole Phone and assign a SIP URI to the list.		
Enter search criteria below User ID 🔹	Starts With   Available Users		+ Monitored Users	Search
		Add > Remove < Add All >> Remove All	FanvilUser3 (FanvilUser3 (FanvilUser3) Move Up Move Down	
	Busy Lamp Field Busy Lamp Field allovs you to create a list OK Apply Cance List URI: stp. <u>b_E1</u> ✓ Enable Call Park notification Enter search criteria below User ID ▼	Busy Lamp Field Busy Lamp Field allows you to create a list of users to monitor vita your SIP Attendant Co K Apply Cancel List URI: sip <u>bLE1</u> @ as in Enter search criteria below User ID • Starts With • Available Users	Busy Lamp Field Busy Lamp Field allows you to create a list of users to monitor via your SIP Attendant Console Phone and assign a SIP URI to the list. OK Apply Cancel List URI: stp. <u>LE1</u> @ as inp1 broadworks.net • Enter search criteria below User ID • Starts With • Available Users Available Users Add 2 Remove All	Busy Lamp Field Busy Lamp Field allows you to create a list of users to monitor via your SIP Attendam Console Phone and assign a SIP URI to the list. CK Apply Cancel List URI: Stp. LE1 © Enable Call Park: notification Enter search criteria below User D • Starts With • • • • • • • • • • • • • • • • • • •

8. 填写 List URI, 比如 bLf1,此名字只需要和下面提到的话机上的 BLF List Number 一样就可以。点击"Search"可以显示所有可以被监控的号码。将想要监控的号码移到右 边的监控用户列表里面,点击"OK"保存。

Group > Users : FanvilUser1				v	Help - He Velcome (Log
Ptofile Incoming Calls Outpoing Calls Outpoing Calls	Busy Lamp Field Busy Lamp Field allows you to create a list of users to m OK Apply Cancel	onitor via your SIP Attendant Console Ph	one and assign a SIP URI to the list.		
Call Control Client Applications Messaging Collaborate Meet-Me Conferencing Utilities	List URI: sip: bLF1	@ as.iop1.broa	dworks.net		
	Enter search criteria below				
	User ID • S	tarts With 🔻		+	Search
	boss,wang (022330048) FanvillsTBCUser,1,FanvillsTBC FanvillsTBCUser,2,FanvillsTBC Fanvillser(4,Fanvillser(4,Fanvillser(Fan Fanvillser),Fanvillser(5,Fanvillser) Fanvillser,5,Fanvillser,6,Fan Fanvillser,6,Fanvillser,6,Fan Fanvillser,6,Fanvillser,6,Fan	User2 (FanvilBTBCUser1) User2 (FanvilBTBCUser2) IIUSer4) IIUSer4) IIUSer6) IIUSer6) IIUSer6) IIUSer6)	Add > Remove < Add All >> Remove All	FanvilUser3,FanvilUser3 (FanvilUser3)	

9. 登录 Fanvil 话机的网页,默认的用户名和密码均为 admin。 如下图所示。

Fanvil								中文 🔻	☑ 注销	( admin )
									☑ 保持连接	
	信息	用户配置	系統配置	开级	自动部署	辅助工具	重启话机			
> #546										
								NOTE		
> 网络	系统信息 🕜							描述:		
	型号:		X6					显示话机的一些基本信息,包		
> 线路	硬件版本:		V1.0					活空号, 软硬件版本, 运行时 间, 网络状况, 帐号注册状态		
	软件版本:		1.4.1					等		
> 电话设置	2至47时时间:		04:29	: 13						
	网络 🕜									
› 电话本	WAN									
	连网方式:		Static IP							
> 通话记录	Mac地址:		00:00:0	1:12:20:30						
	IPV4									
> 快速度	IP地址:		172.16.5	5.32						
	子网掩码:		255.255	.0.0						
> 应用	网关:		172.16.	1.1						
	VQ Status									
> 安全	Start time:			Stop time:						
	Local user:			Remote us	ier:					
> 设备日志	Local IP:			Remote IP						
	本地調口:			Remote po	ort:					
	Local codec:			Remote co	dec:					
	Jitter:			JitterBuffe	rMax:					
	Packets lost:			NetworkPa	icketLossRate:					
	MOS-LQ:	law.		MOS-CQ:	Doloui					
	SymmOneW	idy:		litterBuffe	rDelay:					
	Symmotiews	5900109.		sitter burre	HORE.					
	SIP账号 🕜									

10. 选择左侧栏的快捷键,进入到快捷键设置界面,如下图所示。配置 DSSKey 键的 Type 为 BLF List 键,每一个 DSSKey 键对应一个被监控的号码。如果在 BroadWorks 上配置的 被监控的号码比话机 dsskey 上配置的 BLF List 键多。话机会将多出来的号码设置到 dsskey Type 为 None 的键上面。点击"应用"保存这些设置。

Fanvil								中文	▼ ☑ 注销 (admin) ☑ 保持连接
	快速键	扩展键	Softkey设置	高級	]				
› <i>系统</i>								NOTE	
· •	快捷罐设置 一罐转移	220	Z新遺活 ▼	dsskey 主页: None	Ŧ			描述: 自定义功能键,可设置为line	
> 线路	页1 页:	2 页3 页4 页	15	12200		删除	漆加新页	DE, DIVENJEDE	
› 电话设置	按键	樂型	姓名	值	子樂型	线路	抢接号码		
	DSS Key 1	BLF List線 ▼			无 🔻	AUTO	•	1	
> 由沃木	DSS Key 2	BLF List键 ▼			无 🔻	AUTO	•		
BRIN	DSS Key 3	BLF List键 ▼			无 🔻	AUTO	*		
	DSS Key 4	BLF List键 ▼			无 •	AUTO	•	1	
> 通话记录	DSS Key 5	无 *			无 🔻	AUTO	•		
	DSS Key 6	无 *			无 🔻	AUTO	•		
> 快捷键	DSS Key 7	无 *			无 🔻	AUTO	•		
	DSS Key 8	无 *			无 🔻	AUTO	•		
、应用	DSS Key 9	无 *			无 🔻	AUTO	¥		
	DSS Key 10	无 🔻			无 🔻	AUTO	•		
	DSS Key 11	无 •			无 🔻	AUTO	•		
· 安全	DSS Key 12	无 🔻			无 🔻	AUTO	Y		
> 设备日志				提交					

11. 选择左侧的 Line 进入到话机账号设置界面,如下图所示。配置上面提到的在 BroadWorks 中选择的 FanvilUser1 的账号到话机对应的线路上。

Fanvil						中文 中文	T D 注稿 (ad D 保持道接	dmin )
	SIP SIP	忠点 收号規则	基本设定	RTCP-XR				
› <b>恐统</b>						NOTE		
→ <b>网络</b>	线路 240498734 ▼ 注册设定 >>					描述: 话机注册账号基本设置和sip		
> 线路	线路状态:	已注册	域:			账号功能高级设置		
→ → 电活设置	服务贛地址: 服务贛端口: 用户认证:	as.iop1.broadworks.net 5060 FanvilUser1	<ul> <li>SIP代表</li> <li>代理服</li> <li>代理用</li> </ul>	翻形务器地址: 尽器端口: ⇒:	5060 0			
› 电话本	验证密码:		(2) 代理密	高:				
> 通话记录	用户名: 显示名: 启用:	2404987341	<ul> <li>谷 备份代</li> <li>谷 备份代</li> <li>服务器</li> </ul>	里服务職地址: 里服务體端口: 呂称:	5060 0			
> 快速键	基本设定 >>					-		
> 应用	编码设定 >> 🕜					-		
› 安全	高级设定 >> 全局设置 >>					-		
> 设备日志		提交						

12. 右侧栏点击"高级设置"打开 sip 高级设置界面,如下图所示。勾选开启 BLF List,并填写 BLF List 号码,此号码就是步骤 8 中在 BroadWorks 上设置的 List URI。点击最下面的"提交"。确保 FanvilUser1 账号注册成功,如此就成功设置了 BLF List 功能

Fanvil						中文 中文	▼ 2 注销 (admi 2 保持连接
	SIP SIP#	地带规则	基本设定	RTCP-XR			
> 系统	織路 240498734▼					NOTE	
, 网络	注册设定 >>					活机注册账号基本设置和sip 账号功能高级设置	
> 线路	基本设定 >>						
› 电话设置	编码设定 >> 🕜 高级设定 >>						
电话本	开廊服务码: 启用勿打扰:		] 🥝 停用勿	打扰功能:			
通话记录	启用无条件转接: 启用忙线转接:		②         停用无           ③         停用忙	新件转接: 浅转接:	Ø		
快速键	启用无应答转接: 启用拒接匿名来电:		] <b>2</b> 停用无 ] <b>2</b> 停用拒	立答转接: 豪丽名来电:	Ø		
翰用	呼叫等待开启码: 发送置名呼叫开启码:		] 🕜 呼叫等 ] 🕜 发送匿	寺美闭码: 宮呼叫美闭码:	Image: Constraint of the second sec		
安全	SIPhDM:		SIPhir	585月: mareta			
设备日志	信用通话计时: 开户时 F List:		KIF/JJ 通话超 BLE LI	파파明. 배设定: :+ 문편·			
	使用单一编码响应呼叫:		BLF服	588:	0		
	保持联机类型:	UDP 🔻 🥝	佩持联	沉濁期:	60 🕸 🕜		
	保持认证:		拒绝置	名呼叫:			
	用户代理: SIP版本:	RFC3261 V	<ul> <li>資 描定服</li> <li>置名通</li> </ul>	9顧樂型: 舌标准:	BroadSoft V 2		
	本地端口:	5060	🕜 - 校声类	코:	Default V		

13. 在话机上查看刚才配置的 dsskey 按键,如果 LED 灯亮了说明配置成功,如下图所示。 给被监控的号码打一路电话,会看到对应的 dsskey led 灯有相应的变化。