

Grandstream Networks, Inc.

VPK (Virtual Multi-Purpose Keys) Guide





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SUPPORTED DEVICES

Following table shows Grandstream products supporting VPK feature:

Table 1: Grandstream products supporting VPK feature

Model	Firmware							
GXP21XX Series								
GXP2130	Yes	1.0.7.25 or higher						
GXP2140	Yes	1.0.7.25 or higher						
GXP2160	Yes	1.0.7.25 or higher						
GXP2135	Yes	1.0.7.25 or higher						
GXP2170	Yes	1.0.7.25 or higher						
	GXP17XX Series							
GXP1760	Yes	1.0.1.74 or higher						
GXP1760W	Yes	1.0.1.74 or higher						
GXP1780	Yes	1.0.1.74 or higher						
GXP1782	Yes	1.0.1.74 or higher						





INTRODUCTION

Grandstream GXP21XX and GXP17XX IP phones have introduced a new VPK ("Virtual Multi-Purpose Keys") feature to add more flexibility and provide better user experience using Multi-Purpose Keys modes.

With the new VPK feature design, line keys can be assigned with multiple functions. Users have also the ability to add more VPKs which will be displayed on different screens. The screens are dynamically added to match the extra VPKs, and incrementally indexed on the top of the main screen (1 to 4) until reaching the maximum number of supported VPKs.

Using VPK, users will be able to monitor extensions, use speed dial numbers, send DTMF during calls and more from their phone screens directly; switching between screens will show configured VPK and bring more flexibility to user's experience.

If using standard MPK on a GXP2160 IP phone, for instance, which supports 6 line keys, customers can use 1 LINE key for the main SIP accounts and the 5 others (not including built-in MPKs) can be used for monitoring/speed dial or any other available features using that account. While using VPK feature on the same GXP2160, customers can configure the same LINE key with up to 4 features virtually mapped on different screens, as an example, Line 1 key can be configured as LINE on the first screen, BLF on screen 2, Speed Dial on screen 3 and Call Park on screen 4.



Below screenshot shows the 4 screen pages of the GXP2160.

Figure 1: VPK Pages





FIXED AND DYNAMIC VPK

Fixed VPK

Fixed VPKs are the hard line keys on each phone model; their default mode is "Line" and support all other modes (BLF, Speed Dial...).

Each phone model has a specific number of hard line keys limiting the number of supported Fixed VPK. For instance, GXP2170 has 12 Line keys allowing to support 12 Fixed VPKs

Dynamic VPK

Dynamic VPK are virtual keys that can be added by users.

Each phone model has a specific number of allowed Dynamic VPK, depending on number of hard line keys and screens. For instance, GXP2170 has 12 hard keys, number of supported VPKs (Fixed and Dynamic) is 48 VPK = 12 (Fixed VPK) x 4 (screens), available Dynamic VPKs is 36 VPK = 48 VPK - 12 hard keys.

The screens are dynamically added to match the extra VPKs, and incrementally indexed on the top of the main screen (1 to 4) until reaching the maximum number of supported VPKs.

Note: Dynamic VPKs support all available modes (BLF, Speed Dial, Call Park, transfer...) except **LINE**, **Shared Line** and **NONE** modes.

Fixed/Dynamic VPK per Phone Model

The table below shows how many Fixed/Dynamic VPKs each GXP model support.

	GXP2130	GXP2140	GXP2160	GXP2135	GXP2170
Fixed VPK	3	4	6	8	12
Dynamic VPK	9	12	18	24	36
Total VPK	12	16	24	32	48

Table 2: Fixed/Dynamic VPK per Phone Model for GXP21xx

Table 3: Fixed/Dynamic VPK per Phone Model for GXP17xx

	GXP1760	GXP1760w	GXP1780	GXP1782
Fixed VPK	6	6	8	8
Dynamic VPK	18	18	24	24
Total VPK	24	24	32	32

Note: Even if a fixed VPK has mode set to "None", the number of allowed Dynamic VPKs will not change.





VPK CONFIGURATION

To configure/add/edit or delete VPK, follow below steps:

- 1. Access Web GUI of GXP phone.
- 2. Go to Settings \rightarrow Programmable Keys \rightarrow Virtual Multi-Purpose Keys.

ettings	Virtual	Multi-Purpos	e Keys			
General Settings						
Call Features	Order	Mode	Account	Description	Value	
Multicast Paging	1	LINE	1			Edit VPK
Ring Tone	2	LINE	2			Edit VPK
udio Control	3	LINE	3			Edit VPK
_CD Display	4	LINE	4			Edit VPK
LED Control	5	LINE	5			Edit VPK
Date and Time	6	LINE	6			Edit VPK
Neb Service	7	None	1			Edit VPK
(ML Applications	8	None	1			Edit VPK
Programmable Keys = Virtual Multi-Purpose	9	None	1			Edit VPK
Keys	10	None	1			Edit VPK
Programmable Keys	11	None	1			Edit VPK
Extension Boards	÷ <u>12</u>	None	1			Edit VPK
Broadsoft -	÷		I			Edit VPK
Outbound Notification	Add VPK	Reset Save VPK				

Figure 2: Virtual Multi-Purpose Keys page

- 3. Configure Fixed or Dynamic VPKs as follow:
 - a. Fixed VPK:
 - Press Edit VPK button
 - Select mode to use from **Mode** dropdown list.
 - Select Account# from Accounts dropdown list.
 - Enter a description text in **Description** field (optional).
 - Enter the value sequence for each mode in **Value** field if required.
 - Press Save button to save your configuration (Reset button allows to reset all fields to default values).
 - Press **Save VPK** to apply changes to VPK.

Note: Fixed VPKs can only be edited. Adding or deleting Fixed VPK is not allowed.





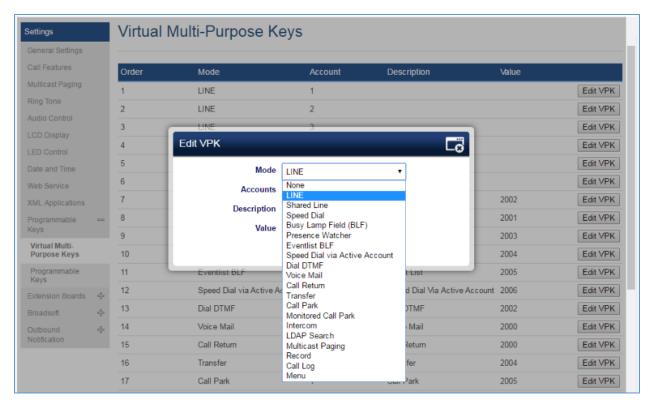


Figure 3: Fixed VPK – Edit

Example:

Customer's GXP2170 has a SIP account registered on Account 1 and needs to monitor extension 1000.

Below values needs to be used:

- Mode: Busy Lamp Field (BLF)
- Accounts: Account 1 (selected)
- **Description:** BLF_1000 (optional)
- Value: 1000

b. Dynamic VPK

• Press Add VPK to create a new Dynamic VPK.

Add VPK	5	Lõ
Mode Accounts Description Value	Speed Dial Account 1 ▼ Save Reset	•





Figure 4: Add VPK

- Select mode to use from Mode dropdown list.
- Select Account# from Accounts dropdown list.
- Enter a description text in **Description** field (optional).
- Enter the value sequence for each mode in Value field if required.
- Press Save button to save your configuration (Reset button allows to reset the VPK to default value).
- Press Save VPK to apply changes to VPK.

Note: Once added and saved, **Edit VPK** and **Delete VPK** buttons will appear. Customers can press **Edit VPK** button to edit or **Delete VPK** to remove selected VPK.

Veb Service		U	LINL	U			Luitver
ML Applications		7	Shared Line	1	Shared Line	2002	Edit VPK
rogrammable		8	Speed Dial	1	Speed Dial	2001	Edit VPK
eys		9	Busy Lamp Field (BLF)	1	BLF	2003	Edit VPK
Virtual Multi- Purpose Keys		10	Presence Watcher	1	Presence Watcher	2004	Edit VPK
Programmable Kevs		11	Eventlist BLF	1	Event List	2005	Edit VPK
xtension Boards	4	12	Speed Dial via Active A	ccount 1	Speed Dial Via Active Ascount	2006	Edit VPK
roadsoft	4	13	Edit VPK			2002	Edit VPK
utbound	÷	14	Mode	Dial DTMF	-	2000	Edit VPK
otification		15		Speed Dial	_	2000	Edit VPK
		16	Accounts	Busy Lamp Field (BLF) Presence Watcher		2004	Edit VPK
		17	Description	Eventlist BLF		2005	Edit VPK
		18	Value	Speed Dial via Active Accou Dial DTMF	unt	2005	Edit VPK
		19		Voice Mail Call Return		2006	Edit VPK
		20	LDAP Search	Transfer Call Park		2003	Edit VPK
		21	Multicast Paging	Monitored Call Park Intercom	ast paging	2005	Edit VPK
		22	Record	LDAP Search Multicast Paging	Ł	2004	Edit VPK
		23	Call Log	Record	.og	2006	Edit VPK
		24	Menu	Call Log Menu		2001	Edit VPK

Figure 5: Dynamic VPK

Example:

Customer's GXP2170 has a SIP account registered on Account 1 and wants to add a Speed Dial for extension 1001.

Below values needs to be used:

- Mode: Speed Dial
- Accounts: Account 1 (selected)
- Description: SP_1001 (optional)
- Value: 1001





VPK MODES AND INDICATION FOR GXP21XX

Fixed VPK support all available modes (20 modes), while Dynamic VPK doesn't support **Line**, **Shared Line** and **None** modes (17 modes). The following table provides a description of each mode as well as state, icon, and LED status.

Table 4: VPK Modes and Indications for the GXP21xx

VPK Mode	Description	State	lcon	LED Status
Speed Dial	Speed Dial mode allows to set a key for one touch dialing; configured number will be dialed once VPK is pressed.	Account Unregistered	G	OFF
	Select the Account to dial from and enter the Speed Dial number to be dialed in the Value field or enter the IP address to set the Direct IP call as Speed Dial.	Account Registered	G	ON
Busy Lamp Field	Busy Lamp Field (BLF) mode allows to monitor status (available, ringing, busy) of an extension.	Offline, Unknown	20	OFF
(BLF)	Select the Account to monitor the BLF status. Enter the extension number in the Value field to be monitored.	Terminated	1	GREEN
		Proceeding	20	RED
		Ringing (Early)	2	Flashing RED
		Trying	20	Flashing RED
		Confirmed	20	RED
Speed Dial Via Active Account	Speed Dial via active account mode allows to set a key for one touch dialing; configured number will be dialed once VPK is pressed using specified account if available, otherwise, first available account will be used to dial out.	No state changes	G	OFF
	Select the Account to dial from and enter the Speed Dial number to be dialed in the Value field or enter the IP address to set the Direct IP call as Speed Dial.			
Dial DTMF	Dial DTMF allows customers to send digits while in communication, for instance, when dialing to an IVR, users can set Dial DTMF Key to send digits to the IVR.	No state changes	▦	OFF
	Enter a series of DTMF digits in the Value field to be dialed during the call.			
Voice Mail	Allows access to user's voice mail by pressing configured VPK.	Account not registered	C	OFF
	Select Account and enter the Voice Mail access number	Account Registered (No new voice mail)	C	OFF





	in the Value field.	Account Registered (voice mail available)		OFF
Call Return	Allows users to dial last answered call by pressing configured VPK. The Value field should be left blank. This option is not binding to the account and the call will be returned based on the account with the last answered call.	No state changes	ଓ	OFF
Transfer	Allows to set a destination number to transfer calls to it (blind transfer) by pressing configured VPK.	Account Unregistered	(+	OFF
	Select Account , and enter the number in the Value field to be transferred during the call.	Account Registered	(+	OFF
Call Park	This feature allows to park/pick up the call, and can be also used to monitor parking lots via VPK button's LED.	Account Unregistered	9	OFF
	 Select Account, and enter the call park extension in the Value field to park/pick up the call. <u>Notes:</u> If Value field has leading star code like *xx, the phone will not send SUBSCRIBE to the server, and VPK will be used to only park/retrieve calls; If Value field is set with parking late (for example): 	Account Registered	0	OFF
	 If Value field is set with parking lots (for example: 701, 702), VPK will be used as Monitored Call Park; the phone will send SUBSCRIBE to monitor configured parking lots and park/retrieve calls. 			
Intercom	Allows to set a VPK as intercom button to a specific destination with auto-answer instruction.	Account Unregistered	((=))	OFF
	When the call is initiated, SIP INVITE sent towards destination extension (via SIP server) will include Alert-info header with Auto-answer=0 parameter. Select Account , and enter the extension number in the	Account Registered	((=))	OFF
	Value field to do the intercom.			
LDAP Search	 This option is to narrow the LDAP search scope. Enter the LDAP search base in the Description field. It could be the same or different from the Base in LDAP configuration under Advanced Settings. The Base in LDAP configuration will be used if the Description field is left blank. 	No State		OFF
	 Enter the LDAP Name/Number filter in the Value field. For example: If users set VPK as "LDAP Search" for "Account 1", and set filters: Description -> 			





	ou=video,ou=SZ,dc=grandstream,dc=com Value ->			
	sn=Li			
	Since the Base for LDAP server configuration is			
	"dc=grandstream,dc=com", "ou=video,ou=SZ" is added			
	to narrow the LDAP search scope. "sn=Li" is the example to filter the last name.			
Multicast	Multicast paging is a feature that allows the user to make			
Paging	calls to a group of phones listening to the same Paging IP address.			
	Multicast paging calls will be automatically answered on			
	listening phones and conversation will be in one-way audio path (originator can speak, while listening phones will be able to hear only).	No State	<u>.</u>	OFF
	Enter Line key description in Description field and			
	multicast sending address in Value field.			
Record	Allows users to record ongoing calls. Recording needs to be supported on the server to use this feature.	ldle	REC	OFF
		Recording	REC	Flashing
Call Log	This Key is a shortcut to Call History.	No state	6	OFF
Menu	This Key is a shortcut to the Menu button.	No state	Ľ	OFF
Presence	Presence watcher allows to monitor presence / registration status of an extension. this feature needs to be supported by SIP server to use it.	Offline, Unknown	20	OFF
Watcher				
	Select the Account to monitor the presence status.	Available		GREEN
	Enter the extension number in the Value field to be	Available		GREEN
Man: tanad	monitored.			
Monitored Call Park	This feature allows to park/pick up the call, and monitor the parked call via VPK button's LED.	Offline, Unknown	-0	OFF
	Select account from Account field, and enter the call park extension in the Value field.	Available	4	GREEN
	Note: The phone sends SUBSCRIBE to the server to retrieve status of monitored parking lot.	Call Parked	æ	RED
Eventlist BLF	Eventlist BLF allows to monitor a list of extension similar to BLF, administrator needs to configure Eventlist BLF on	Offline, Unknown	20	OFF
	server side and provide Eventlist BLF URI on the phone.	Terminated	1	GREEN
	Select the Account to monitor the Eventlist BLF status. Enter the extension number in the Value field to be	Proceeding	20	RED
	monitored and make sure to specify " Eventlist BLF URI " (Account $X \rightarrow$ SIP Settings \rightarrow Advanced Features).	Ringing (Early)	2	Flashing RED
	(noodine A 2 on Octings 2 Auvanceu Features).	Trying	-le	Flashing RED
		Confirmed	200	RED





Line	Regular line key to open up a line and switch line. The Description and Value fields can be left blank.	Unregistered (No IM, Voice mail, No Call Forward)	×	OFF
	Note: Line mode is supported on Fixed VPK only.	Registered + Idle (No IM, Voice mail, No Call Forward)		OFF
		Unregistered + IM + Voice mail	a	OFF
		Registered + IM + Voice mail	a	OFF
		Unregistered + IM (No Voice mail)	8	OFF
		Registered + IM (No Voice mail)		OFF
		Unregistered + Voice Mail (No IM)		OFF
		Registered + Voice Mail (No IM)		OFF
		Unregistered + Call Forward All (No IM, No Voice Mail)	0	OFF
		Registered + Call Forward All (No IM, No Voice Mail)	•	OFF
		Unregistered + Call Forward Delay + Call Forward Busy (No IM, No Voice Mail)	(¢	OFF
		Registered + Call Forward Delay + Call Forward Busy (No IM, No Voice Mail)	(*	OFF
		Unregistered + Call Forward Delay (No IM, No Voice Mail, No Call Forward Busy)	(¢	OFF
		Registered + Call Forward Delay (No IM, No Voice Mail, No Call Forward Busy)	(+	OFF





		Unregistered + Call Forward Busy (No IM, No Voice Mail, No Call Forward Delay)	(¢	OFF
		Registered + Call Forward Busy (No IM, No Voice Mail, No Call Forward Delay)	(•	OFF
		Registered + Ringing	٩	Flashing RED
		Registered + On Hold	C	Flashing GREEN
		Registered + Connected + Incoming Call	ષ	GREEN
		Registered + Connected + Outgoing Call	હ	GREEN
Shared Line	Share line for Shared Line Appearance feature. Select the Account registered as Shared line for the line key. The Description and Value fields can be left blank. Note: You may refer to this guide for more detail about Shared Line configuration: <u>BS_SCA_conf_Guide</u>	Unregistered	2	OFF
		Registered + Not support SCA Call-info header	G	OFF
		Registered + Not support SCA or SCA Failed	C	OFF
		Registered + Idle	9	OFF
		Registered + Seized	£	RED(Alternate DUT)
		Registered + Processing	£	Flashing GREEN(Alternate DUT)
		Registered + Alert	2	Flashing RED
		Registered + Hold by user	5	Flashing GREEN
		Registered + Hold by the other party	2	Flashing RED
		Registered + Connected	5	GREEN





SCREEN EXAMPLES FOR GXP2170



The following screenshots show the GXP2170 screen's first two pages:

Figure 6: Screen Example - Page 1



Figure 7: Screen Example - Page 2





VPK MODES AND INDICATION FOR GXP17XX

Fixed VPK support all available modes (20 modes), while Dynamic VPK doesn't support **Line**, **Shared Line** and **None** modes (17 modes). The following table provides a description of each mode as well as state, icon, and LED status.

Table 5: VPK Modes and Indications for GXP17xx

VPK Mode	Description	State	lcon	LED Status
Speed Dial	Speed Dial mode allows to set a key for one touch dialing; configured number will be dialed once VPK is pressed.	Account Unregistered	(^S	OFF
	Select the Account to dial from and enter the Speed Dial number to be dialed in the Value field or enter the IP address to set the Direct IP call as Speed Dial.	Account Registered	cs	ON
Busy Lamp Field (BLF)	Busy Lamp Field (BLF) mode allows to monitor status (available, ringing, busy) of an extension.Select the Account to monitor the BLF status. Enter the extension number in the Value field to be monitored.	Offline, Unknown	io	OFF
		Terminated	fard .	GREEN
		Ringing (Early)	93	Flashing RED
		Trying		Flashing RED
		Confirmed		RED
Speed Dial Via Active Account	Speed Dial via active account mode allows to set a key for one touch dialing; configured number will be dialed once VPK is pressed using specified account if available, otherwise, first available account will be used to dial out.	No state changes	8	OFF
	Select the Account to dial from and enter the Speed Dial number to be dialed in the Value field or enter the IP address to set the Direct IP call as Speed Dial.			
Dial DTMF	Dial DTMF allows customers to send digits while in communication, for instance, when dialing to an IVR, users can set Dial DTMF Key to send digits to the IVR.	No state changes	ß	OFF
	Enter a series of DTMF digits in the Value field to be dialed during the call.			
Voice Mail	Allows access to user's voice mail by pressing configured VPK.	Account Registered (No new voice mail)	ц.	OFF
	Select Account and enter the Voice Mail access number in the Value field.	Account Registered (voice mail available)	-	OFF Blinking Green light 🔽





Call Return	configured VPK. The Value field should be left blank. This option is not binding to the account and the call will	No state changes	es	OFF
Transfer	be returned based on the account with the last answered call. Allows to set a destination number to transfer calls to it (blind transfer) by pressing configured VPK.	Account Unregistered		OFF
	Select Account , and enter the number in the Value field to be transferred during the call.	Account Registered	с,	OFF
Call Park	This feature allows to park/pick up the call, and can be also used to monitor parking lots via VPK button's LED.	Account Unregistered	P	OFF
	Select Account , and enter the call park extension in the Value field to park/pick up the call.			
	 Notes: If Value field has leading star code like *xx, the phone will not send SUBSCRIBE to the server, and VPK will be used to only park/retrieve calls; 	Account Registered	P	OFF
	 If Value field is set with parking lots (for example: 701, 702), VPK will be used as Monitored Call Park; the phone will send SUBSCRIBE to monitor configured parking lots and park/retrieve calls. 			
Intercom	Allows to set a VPK as intercom button to a specific destination with auto-answer instruction.	Account Unregistered	((•))	OFF
	When the call is initiated, SIP INVITE sent towards destination extension (via SIP server) will include Alert-info header with Auto-answer=0 parameter.	Account Registered		OFF
	Select Account , and enter the extension number in the Value field to do the intercom.			
LDAP Search	 This option is to narrow the LDAP search scope. Enter the LDAP search base in the Description field. It could be the same or different from the Base in LDAP configuration under Advanced Settings. The Base in LDAP configuration will be used if the Description field is left blank. 			
	Enter the LDAP Name/Number filter in the Value field. <u>For example:</u> If users set VPK as "LDAP Search" for	No State	14	OFF
	"Account 1", and set filters: Description -> ou=video,ou=SZ,dc=grandstream,dc=com Value -> sn=Li			





	Since the Base for LDAP server configuration is			
	"dc=grandstream,dc=com", "ou=video,ou=SZ" is added to narrow the LDAP search scope. "sn=Li" is the example to filter the last name.			
Multicast Paging	Multicast paging is a feature that allows the user to make calls to a group of phones listening to the same Paging IP address.			
	Multicast paging calls will be automatically answered on listening phones and conversation will be in one-way audio path (originator can speak, while listening phones will be able to hear only).	No State	<u>ň.</u>	OFF
	Enter Line key description in Description field and multicast sending address in Value field.			
Record	Allows users to record ongoing calls. Recording needs to be supported on the server to use this feature.	Idle	REC	OFF
		Recording	REC	Flashing
Call Log	This Key is a shortcut to Call History.	No state	đ	OFF
Menu	This Key is a shortcut to the Menu button.	No state		OFF
Information	This Key will display General information (IPv4, Software version, MAC address)	No state	i.	OFF
Presence Watcher	Presence watcher allows to monitor presence / registration status of an extension. this feature needs to be supported by SIP server to use it.	Offline, Unknown	is	OFF
	Select the Account to monitor the presence status. Enter the extension number in the Value field to be monitored.	Available	and a second	GREEN
Monitored Call Park	This feature allows to park/pick up the call, and monitor the parked call via VPK button's LED.	Offline, Unknown	(P)	OFF
	Select account from Account field, and enter the call park extension in the Value field.	Available	(P)	GREEN
	Note: The phone sends SUBSCRIBE to the server to retrieve status of monitored parking lot.	Call Parked	P	Flashing RED
Eventlist BLF	Eventlist BLF allows to monitor a list of extension similar to BLF, administrator needs to configure Eventlist BLF on server side and provide Eventlist BLF URI on the phone. Select the Account to monitor the Eventlist BLF status. Enter the extension number in the Value field to be monitored and make sure to specify " Eventlist BLF URI " (Account X \rightarrow SIP Settings \rightarrow Advanced Features).	Offline, Unknown	is	OFF
		Terminated		GREEN
		Ringing (Early)		Flashing RED
		Trying		Flashing RED
		Confirmed	6	RED





Line	Regular line key to open up a line and switch line. The Description and Value fields can be left blank. Note: Line mode is supported on Fixed VPK only.	Unregistered	and the second se	OFF
		Registered + Idle		OFF
		Registered + dialing	S	GREEN
		Registered + Connected + Incoming Call	C	Flashing RED
		Registered + Connected + Outgoing Call		GREEN
		Registered + Connected + Call Established		GREEN
		Registered + Connected + On Hold		Flashing GREEN
Shared Line	Share line for Shared Line Appearance feature. Select the Account registered as Shared line for the line key. The Description and Value fields can be left blank.	Unregistered	and the second se	OFF
		Registered + Idle		OFF
		Registered + Dialing	ς.	OFF





SCREEN EXAMPLES FOR GXP1760

The following screenshots show the GXP1760 screen's first two pages:



Figure 8: Screen Example - Page 1



Figure 9: Screen Example - Page 2

