

Grandstream Networks, Inc.

GVC32XX

Video Conferencing System

XML Based Phonebook Guide





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SUPPORTED DEVICES

Following table shows Grandstream products supporting xml phonebook protocol.

Table 1: List of Supported Products

Model	Firmware
GVC3200/3202	1.0.1.74 or higher
GVC3210	1.0.1.69 or higher
GVC3220	1.0.1.24 or higher





INTRODUCTION

The Grandstream GVC32XX Full HD Video Conferencing System supports XML based downloadable phone book for users to share and maintain a phone book remotely with ease. Besides directly importing VCard/CSV format contacts, loading contacts from synced-up accounts and manually editing from LCD or web UI, the GVC32XX offers this XML API as a user-friendly download method via the GVC32XX's LCD and web UI.

For the ease of efficient deployment and management, the XML phone book file could be stored on a web server for the SIP endpoints to download. There are also applications that require a centralized directory server and have all SIP endpoints synchronized with the server periodically.

This document specifies the Grandstream XML based downloadable phone book configuration that will be applied to GVC32XX. An example XML phone book file is provided at the end of this guide. Users could start a phone book by adding contacts to the example file or exporting the existed phone book file from its LCD or web UI.

What is XML

XML (eXtensible Markup Language) is a markup language* for documents and applications containing structured information. This information contains both content (text, pictures, input box and etc.) and an indication of what role that content plays (e.g. contents in a section header is different from contents in a footnote). Almost all documents are structured.*

*A markup language is a mechanism to identify structures in a document. The XML specification defines a standard way to add markup to documents.

Why XML

XML API Architecture

The XML based phone book downloading for the GVC32XX could use HTTP or TFTP as the transport protocol. The following figure shows how it works via HTTP as an example.





First, the GVC32XX initiates the HTTP GET Request to the HTTP server and waits for the response. Once the device receives the response with XML content in BODY, it displays the information.

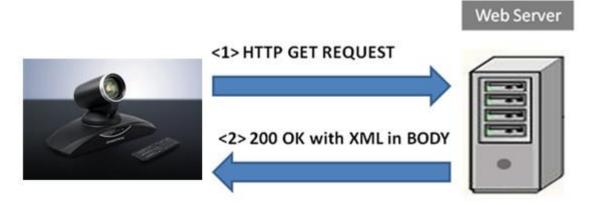


Figure 1: GVC32XX XML API via HTTP

Two types of XML API architecture are introduced below, depending on whether the transaction is via LAN or Internet.

 A transaction in the LAN may exchange information in the following manner. The GVC32XX sends a request to the web server via HTTP/TFTP and waits for a response with the XML contents. The web server will handle the request and communicate with the application server to get the information for the XML phone book content display. The following figure shows downloading XML phone book file via HTTP within a LAN.

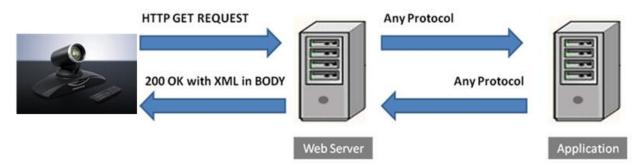


Figure 2: GVC32XX XML API Structure 1

2. If the above Web Server accesses Internet, it could interact with outside web server and respond with real-time content to the GVC32XX.





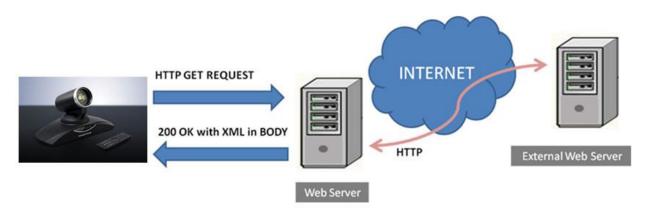


Figure 3: GVC32XX XML API Structure 2

As illustrated above, all the logic lies within the server side of the architecture. The GVC32XX just receives the XML documents and displays it accordingly.





XML PHONEBOOK CONFIGURATION

Firmware

Before the XML phone book is used on GVC32XX, please make sure the firmware on the device is upgraded to the latest version. Please refer to the following link for firmware upgrading information:

http://www.grandstream.com/support/firmware

Web Configuration

To configure XML phone book file download, go to **web UI -> Contacts**, click on "**More**" icon on the bottom and select "**Download**" on GVC3200/3202/3210. This will open the XML Phone Book download interface in a new window.

Call	Contacts	Device Control	Settings	Maintenance	Status	
Contacts Contacts	~					0
Groups Groupe Groupe						
🍄 Call History	>					
£® LDAP		No contacts				J
	De	Import Export Download	Add			
		All Rights Reserved (Grandstream Network	s, Inc. 2015		

Figure 4: Contacts->More->Download on GVC3200/3202/3210



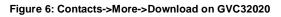


Call	Contacts	Device Control	Settings	Maintenance	Status	
Contacts Contacts	× [0
Groups Schedule			Down	lload		
🔮 Call History	>	Clear The Old L	ist		Yes	
🔮 LDAP		Replace Duplica	ate Entries		✔ Yes	
		Download Mode	HTT	P	V	e.
		File Encoding	UTF	-8	•	
		Download Interv	2 Ho	ours	•	
		Download Serve	er phon	ebook.grandstream.com/	gvc320x/x	
		HTTP/HTTPS U	sername			
		HTTP/HTTPS P	assword		ownload	
		All Rights Reserved (Grandstream Network	s, Inc. 2015		

Figure 5: XML Phone Book Download on GVC3200/3202/3210

For the GVC3220 go to **web UI -> Call -> Contacts**, click on "**More**" icon on the bottom and select "**Download**".

SVC3220	Q DND Share Screen Remote Control English
🗳 Call 🔷	Contacts
Call	Contact List Group
Contacts	Delete Clear all New Contact More
Schedule	Name Import Contacts Group
Call History	Export Contacts C Download Contacts
👤 Account 🗸 🗸	< 1 > 10 / page >
📞 Call Features 🛛 👻	
🏟 Network Settings 🛛 👻	
🕞 System Settings 🗸 🗸	
≔ Device Control 🗸 🗸	
🖹 Арр 🖌 🖌	
🔀 Maintenance 🗸 🗸	
≔ Status 🗸	







S GVC3220			Q DND	Share Screen	Remote Control	English 🗸	🜒 admin v
🗞 Call	Contacts						
Call		Download			×		
Contacts							
Schedule	Clear the Old List 🧑						
Call History	Clear Old History Mode 👩	💿 Clear all 🛛 Ke	ep local contac				
L Account	Replace Duplicate Items 🧑						
📞 Call Features	Replace Duplicate Entries Mode 🧑	Replace by name	e 🔵 Replace	by number			
left Network Settings	Download Mode 🧿	● Off 🔵 TFTP		HTTPS			
System Settings	File Encoding 🧿	UTF-8					
ः≣ Device Control	Download server 🧿						
🖹 Арр	HTTP/HTTPS Username 👩						
🔀 Maintenance	HTTP/HTTPS Password 🕥			مبرد ا			
📰 Status	Automatic Download Interval 🁩	None					
	Download Now 🧿	⊥ Download					
					Save		
	Copyright © Grand	lstream Networks, Inc. 202	20. All Rights Rese	erved. Grandstrea	m Software License Agre	ement	

Figure 7: XML Phone Book Download GVC3220

• Clear The Old List

If this option is set to "ON", all the existed entries in the GVC32XX Contacts will be automatically removed when the XML phone book is downloaded to the device. The default value is "OFF".

• Clear The Old List Mode

If set to "Clear All", the device will delete all previous records before downloading the new records. If set to "Keep Local Contacts", manually added local contacts will not be deleted when downloading new records.

Note: This is only available on the GVC3220

Replace Duplicate Entries/Items

If this option is set to "ON", the duplicate entries in the GVC32XX Contacts will be automatically replaced with the ones in the downloaded XML phone book. The default value is "OFF".

Replace Duplicate Entries Mode

If set to "Replace by Name", records of the same name will be replaced automatically when downloading new records. If set to "Replace by Number", records of the same number will be replaced when downloading new records.

Note: This is only available on the GVC3220





Download Mode

The phone book XML file could be downloaded via HTTP/TFTP/HTTPS. Users could also set it to "OFF" to disable phone book download.

• File Encoding

This option specifies the encoding format for the XML phone book file. Users could select "UTF-8", "GBK" (for Chinese characters), "UTF-16", "UTF-32", "Big5", "Big5-HKSCS", "SHIFT-JIS", "ISO8859-1", "ISO8859-15" and "Windows-1251". The default value is "UTF-8".

Download Interval/Automatic Download Interval

This specifies the phone book automatic download time interval. The available intervals are 2 hour, 4 hour, 6 hour, 8 hour and 12 hour. If it's set to "None", automatic download will be disabled.

Download Server

This specifies the path where the device is going to download the XML phone book file. Since download method is already specified in the previous selection, users do not have to provide this information in the server path. The accepted format is as follows:

IP_address[:port]/dir Hostname[:port]/dir

Examples: 192.168.40.10/XMLphonebookdir 192.168.40.10:443/XMLphonebookdir service.mycompany.com/XML/phonebook mycompany.com:8080/phonebook

• HTTP/HTTPS Username

If the HTTP/HTTPS server has access control set up that requires HTTP/HTTPS authentication, the user needs to fill up the HTTP/HTTPS username here.

HTTP/HTTPS Password

If the HTTP/HTTPS server has access control set up that requires HTTP/HTTPS authentication, the user needs to fill up the HTTP/HTTPS password here.





- 1. If "[:port]" is not specified, port 80 will be used as default for HTTP, port 8089 will be used as default for HTTPS, and Port 69 will be used as default for TFTP.
- 2. The GVC32XX always looks for the phone book file *phonebook.xml* for downloading if no file name is specified in the server path. Users could also change the phone book name if desired. In this case, the phone book file name needs to be specified in the server path. For example, if the phone book file name is *GVC320xcontacts.xml* and the server directory is *192.168.40.10/XML*, the download server path should be *192.168.40.10/XML/GVC320xcontacts.xml*.

After the above configuration, click on "Save" to save the changes. Users could click on "Download" to start the downloading process.

Call	Contacts	Device Control	Settings	Maintenance	Status	
Contacts Contacts	~					Û
Groups						
Schedule			Downle	oad		
🍄 Call History	>	Clear The Old List	t		🗌 Yes	
£ ® LDAP		Replace Duplicate	Entries		✔ Yes	
		Download Mode	HTTF	2	V	
		File Encoding	UTF-	8	V	
		Download Interval	2 Hou	urs	V	e.
		Download Server	phone	book.grandstream.com/	gvc320x/x	
		HTTP/HTTPS Use	ername			
		HTTP/HTTPS Pas	sword			
				Do	ownload	
			Save	Cancel		
	Del	lete More	Add			
		All Rights Reserved Gra	andstream Networks	, Inc. 2015		

Figure 8: Download XML Phone Book on GVC3200/3202/3210





ê	Call	^	Contacts			
				Download	×	
			Clear the Old List 👩		- 1	
			Clear Old History Mode 💿	Clear all Keep local contacts		
<u>.</u>		*:	Replace Duplicate Items 💿			
5		×	Replace Duplicate Entries Mode	Replace by name Replace by number		
G		¥2	Download Mode 👩	Off TFTP HTTP HTTPS		
59		×	File Encoding ③	UTF-8		
≔		*2	Download server 🇿	phonebook.grandstream.com/gvc32xx/xml_phon		
Ð		×	HTTP/HTTPS Username 👩			
*		*:	HTTP/HTTPS Password 🧿	ميرد ا		
:: : :::::::::::::::::::::::::::::::::		×	Automatic Download Interval 📀	2Hours v	_	
			Download Now 🎯	L Download		
					Save	

Figure 9: Download XML Phone Book on GVC3220

LCD Configuration on GVC3200/3202/3210

Besides using the web UI to configure XML phone book download, the users could also achieve the same configuration via GVC3200/3202/3210 LCD display using the GVC remote control.

1. On the GVC3200/3202/3210 LCD main screen, click on "Contacts".

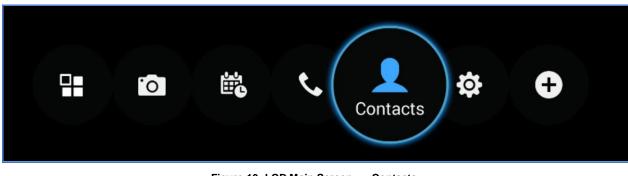


Figure 10: LCD Main Screen --> Contacts

2. Press button = on the remote control and select "Download".





192.168.40.129 🕒 Acc	ount (not configured)			A 🗄	ා 15:47
L Contacts	📞 Call	🛑 Delete	😑 Edit	New	Į
All 🕨	Q Search contacts			Call	
				Delete	
Groups		No co	ontacts	Edit	
				New	
				Import	
				Export	
물건물 여기 나는				Download	
남 승규, 양 성 방법을					

Figure 11: Contacts --> Download

Download Contacts	Download Now	- Save	Cancel 📃
Clear Old History			
Replace Duplicate Entries			
Download Mode			HTTP 🖌
File Encoding			UTF-8
Time Intervals			2 Hour
HTTP/HTTPS Username			
HTTP/HTTPS Password			
Download Server		phonebook.	grandstream.com/gvc

Figure 12: XML Phone Book Download Configurations in LCD





- 3. Use the remote control to configure phone book download parameters, which are the same as described in section <u>Web Configuration</u>.
- 4. Press the yellow shortcut key on the GVC remote control or press = --> Save to save the configuration.

Download Contacts	🗢 Download Now	Save	Cancel
Clear Old History			Cancel
			Save
Replace Duplicate Entries			Download Now
Download Mode			HTTP 🖌
File Encoding			UTF-8
Time Intervals			2 Hour 🖌
HTTP/HTTPS Username			
HTTP/HTTPS Password			
Download Server		phonebook	.grandstream.com/gvc

Figure 13: Save Configuration

The users can press the red shortcut key on the GVC remote control or press Download
 Now to download the phone book XML immediately. Or the users can wait for the next downloading interval (if configured) for the phone book to be downloaded to GVC3200/3202/3210.

Download Contacts	Download Now	- Save	Cancel
Clear Old History			Cancel
			Save
Replace Duplicate Entries			Download Now
Download Mode			HTTP 🔺
File Encoding			UTF-8
Time Intervals			2 Hour
HTTP/HTTPS Username			
HTTP/HTTPS Password			
Download Server		phonebook.	.grandstream.com/gvc

Figure 14: Download Now





Note: LCD configuration is not possible on the GVC3220

Provisioning

Users may also use the config file to provision GVC32XX with the above XML phone book downloading options. The corresponding P values are as shown below:

- **P330**: Download Mode. Possible values: 1 (TFTP) / 2 (HTTP) / 3 (HTTPS) / 0 (OFF); other values are ignored. The default value is 0.
- **P1435**: Clear the Old List. Possible values: 0 (No) / 1 (Yes); other values are ignored. The default value is 0.
- **P1436**: Replace Duplicate Entries. Possible values: 0 (No) / 1 (Yes); other values are ignored. The default value is 0.
- **P1681**: File encoding. Possible values: UTF-8, GBK, UTF-16, UTF-32, Big5, Big5-HKSCS, SHIFT-JIS, ISO8859-1, ISO8859-15, Windows-1251. The default value is UTF-8.
- **P331**: Download Server. This is a string for the path to download the phonebook.xml file. It MUST be in the host/path format.
- P332: Download Interval (in minutes). Possible values: 0 "None", 120 "2 hour", 240 "4 hour", 360 "6 hour", 480 "8 hour", and 720 "12 hour"; other values are ignored. The default value is 0 (automatic download disabled).
- **P6713**: HTTP/HTTPS Username for phonebook downloading
- **P6714**: HTTP/HTTPS Password for phonebook downloading

GVC32XX will be set up with the P values when the provisioning routine is completed. It will attempt to download the phone book XML file specified in "Download Server" with configured interval and process it. If the "Download Interval" is set to a non-zero value, a recurring timer will be activated periodically to check the phone book file in the server and the device will repeat this process automatically.

▲ Note:

- 1. As you may know, it is also possible to enter the XML phone book file server path into a web browser. In this way you'll be able to see the exact XML document on your PC that your phone will be receiving.
- The downloaded XML phone book file can be displayed but it won't be saved internally on the device. It is recommended to save the XML phone book file externally on your PC or server for your reference and future use.





Import/Export Phonebook

Besides downloading phone book file from remote server, users could also directly import phonebook.xml to the GVC32XX from the web UI. If there is an existing phone book in the device's Contacts already, users may export the phone book file to PC as well. The "Import" and "Export" settings are under **web UI--> Contacts**: More on the GVC3200/3202/3210 or under **web UI --> Call --> Contacts**: More on the GVC3220.

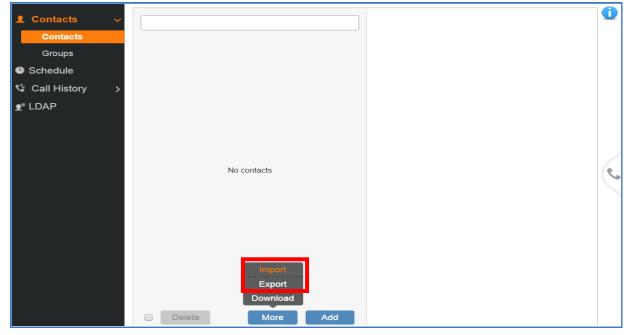
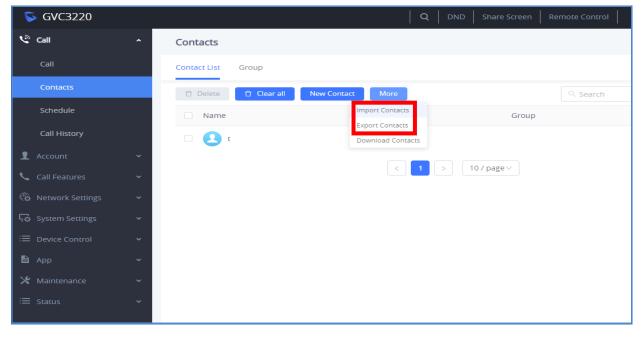


Figure 15: Import/Export Phone Book on GVC3200/3202/3210









• Import

Click on "Import" and the following figure will show:

Call	Contacts	Device Control	Settings	Maintenance	Status	
Contacts Contacts Groups	~					0
Schedule			Impo	ort		
🎕 Call History	>	Clear The Old List			□ Yes	
£® LDAP		Replace Duplicate	Entries		🗌 Yes	
		File Encoding	UTF-	-8	-	
		File Type	XML		v	
			Save	Gancel	owse	J

Figure 17: Import Phone Book XML File: Settings on GVC3200/3202/3210

5	GVC3220			Q DND Share Screen	Remote Control E
Ô	Call	^	Contacts		
				Import Contacts	×
			Clear the Old List 👩		
			Clear Old History Mode 🧿	Clear all Keep local contacts	
1		Ŷ	Replace Duplicate Items 🧿		
e.		~	Replace Duplicate Entries Mode 🧿	Replace by name Replace by number	
¢		Ý	File Encoding 💿	UTF-8 v	
G		~	File Type 🧿	XML ~	
:=		~		土 Import	
B	Арр	~			

Figure 18: Import Phone Book XML File: Settings on GVC3220

Configure import options "Clear The Old List", "Replace Duplicate Entries", "File Encoding" format and select "File Type" as "XML" (with "Clear The Old List Mode" and "Replace Duplicate Entries Mode" on the GVC3220 only). Then, click on "Browse" button to specify the path where the phonebook.xml is located in the PC.





Search 0 cor	ntacts	\$		0
	Importing	Import	Ves	
	File Encoding	UTF-8	☐ Yes	
	File Type	XML	Processing	0

Figure 19: Importing Phone Book XML

Search 2	2 contacts	L	Alex Smith	0
	Imported successfully!		(Home , SIP) 1234567890 х ок	
	Replace Duplicate Entr	ies	Yes	
	File Encoding	UTF-8	v	
	File Type	XML	v	
			Browse	
	Sa	ave Cancel		

Figure 20: Import Phone Book XML Successfully

After selecting the file, GVC32XX will start importing and finish importing (see figure above) automatically. If the file fails to be imported, please check the format and syntax of the phone book xml file.

• Export

Click on "Export" and the following figure will show:





Search 2 co	ntacts	\$	Name		Jane Doe	0
🗆 👤 Ale	ex Smith		Number	(Work , IPVideoTa	alk Pro) 81234567	
🗆 👤 Jar	n	Exp	ort		/company.com	
	File Encoding	UTF	-8	•		
	File Type	XML				
				Export		
		Save	Cancel			0
- Ē	More	Add			Edit	

Figure 21: Export Phone Book XML File: Settings

Select "File Encoding" format and select "File Type" as "XML". Then, click on "Export" to download phonebook.xml, this file will be saved in PC, under the default downloading directory.

Search 2 cor	ntacts	C.	Name		Jane Doe	0
🗆 👤 Ale	x Smith		Number	(Work , IPVideo]	alk Pro) 81234567	
🗆 👤 Jan		Exp	ort		/company.com	
		Exporting, please wait Save	Cancel	Export		e la

Figure 22: Exporting Phone Book XML File





▲ Note:

1. The Import/Export options are also available in GVC3200/3202/3210 LCD main screen \rightarrow Contacts.

Click	on

 \equiv \rightarrow select Import/Export.

- For "Import", the phone book file needs to be located in GVC3200/3202/3210 file system or SD card/USB storage plugged into the GVC for selection; for "Export", choose the GVC file system directory for the phone book xml file to be saved to.
- 3. The users could manually add contacts to GVC3200/3202/3210 via web UI or LCD first, and then export the phone book XML file, which can be used as a template of phone book xml file to import or download.





XML PHONEBOOK SYNTAX

Header

In the first line of the XML document, the following header can be set as XML declaration. It defines the XML version and encoding. On the GVC32XX, UTF-8, GBK, UTF-16, UTF-32, Big5, Big5-HKSCS, SHIFT-JIS, ISO8859-1, ISO8859-15 and Windows-1251 can be used as encoding method for correct display. Example:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Phonebook XML Structure

An XML phone book example for GVC32XX can be found in the last section of this document. The main structure is represented as below. (Some of the elements are optional).

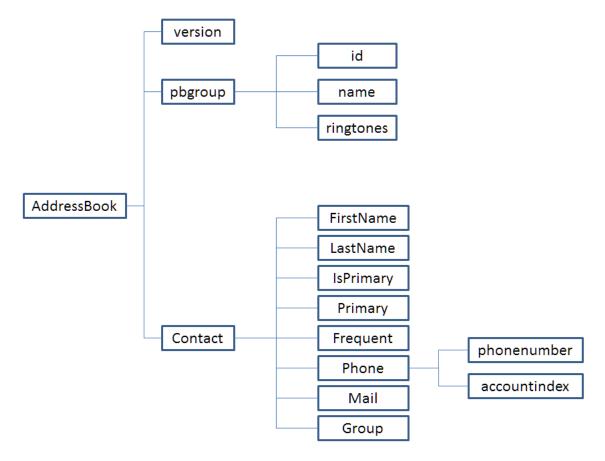


Figure 23: Phone Book XML Structure







Phonebook XML Element

This section describes details of the XML element used in GVC32XX XML phone book file. Please note that the element name is case-sensitive when being used in XML document.

ROOT Element <AddressBook>

<pbgroup> Element







Table 2: <pbgroup> Element

Object	Position	Туре	Values	Comments
pbgroup	Element	Optional	-	Each pbgroup is a group. More than 1
				group can be defined
id	Child element	Optional	Number	To specify group ID.
name	Child element	Mandatory	String	Group name.
ringtones	Child element	Optional	String	The directory/path to the ring tone file
				stored in the GVC32XX.

<Contact> Element

<contact></contact>
<firstname> Enter first name here</firstname>
<lastname> Enter last name here</lastname>
<phone type="Specify phone type here"></phone>
<pre><phonenumber>Enter phone number here</phonenumber></pre>
<accountindex> Enter account index here</accountindex>

Table 3: <Contact> Element

Object	Position	Туре	Values	Comments
Contact	Element	Mandatory	-	Each contact is an entry
FirstName	Child element	Optional	String	Specify first name and last name. At least
LastName	Child element	Optional	String	one of them has to be specified.
Phone	Child element	Optional	-	Phone number information
Mail	Child element	Optional	String	Specify Email address. It has attribute
				"type". type: Work/Home/Others
Group	Child element	Optional	number	Specify group ID for this contact.

<Phone> Element

<phone type="Specify phone type here"></phone>		
<pre><phonenumber>Enter phone number here</phonenumber></pre>		
<accountindex> Enter account index here</accountindex>		

Object	Position	Туре	Values	Comments
Phone	Element	Mandatory	-	It has attribute "type".
				type: Work/Home/Mobile/Fax/Other





phonenumber	Child element	Mandatory	Number	Phone number				
accountindex	Child element	Mandatory	Number	From 0 to 5 for account 1 to account 6				
		•						
xml version="1.0" encoding="UTF-8"?								
<addressbook></addressbook>								
<version>1</version>								
cpbgroup>								
<id>1</id>								
<name>Work</name>								
<ringtones></ringtones>								
<contact></contact>								
<firstname>Jane</firstname>								
<lastname>Doe</lastname>								
<phone type="Work"></phone>								
<pre><phonenumber>81234567</phonenumber></pre>								
<accountindex>1</accountindex>								
<mail type="Other">JaneDoe@mycompany.com</mail>								
<group>1</group>								
<contact></contact>								
<firstname>Alex</firstname>								
<lastname>Smith</lastname>								
<pho< td=""><td>ne type="Home"</td><td>"></td><td></td><td></td></pho<>	ne type="Home"	">						
<pre><phonenumber>1234567890</phonenumber></pre>								
<accountindex>1</accountindex>								
<td colspan="7"></td>								
<mail type="Other">smith.alex@mycompany.com</mail>								
<td>Þ</td> <td></td> <td></td> <td></td>	Þ							
<contact:< td=""><td>></td><td></td><td></td><td></td></contact:<>	>							
<firs< td=""><td>tName>John<td>irstName></td><td></td><td></td></td></firs<>	tName>John <td>irstName></td> <td></td> <td></td>	irstName>						
<lastname>Williams</lastname>								
<pho< td=""><td colspan="8"><phone type="Mobile"></phone></td></pho<>	<phone type="Mobile"></phone>							
<pre><pre>openenumber>5432154321</pre>/phonenumber></pre>								
<accountindex>1</accountindex>								
<mail type="Home">Johnwilliams@mycompany.pbx.com</mail>								

