

## Elibcast PTT

Smart Video Push-to-Talk Service

v1.0



# 1. IP-PTT(PoC)

ElibCast | Smart Video Push-To-Talk Service



## IP-PTT(Push-To-Talk) / PoC(Push-to-Talk Over Cellular)

"With Wi-Fi/LTE and Smart Device, Internet Protocol-based Push-To-Talk/Walkie Talkie service"

Just tap/press the ptt button to talk with your team members and others,
You can now communicate directly with anyone, without having to search for contacts or dial any numbers,

## 2. Needs of market for 2way-radio

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#### Limitation of 2way-radio

- Only voice PTT
- PTT coverage area limitation
- Number of users limitation
- Channel of 2way-radio limitation
- Incompatible with the other frequency/service
- High cost of device/system operations



#### **Technology changes**

Well-used smartphone/LTE
Private LTE for business
Changing 2way-radio(Analogue → Digital)
Withdrawal of TRS frequency
Launch dedicated PTT terminal(device)
Introduction of Public Safety-LTE

### Work changes

Wide working environment
Accurate situational awareness and rapid
response

Real-time site/user management
Collaboration with related organizations

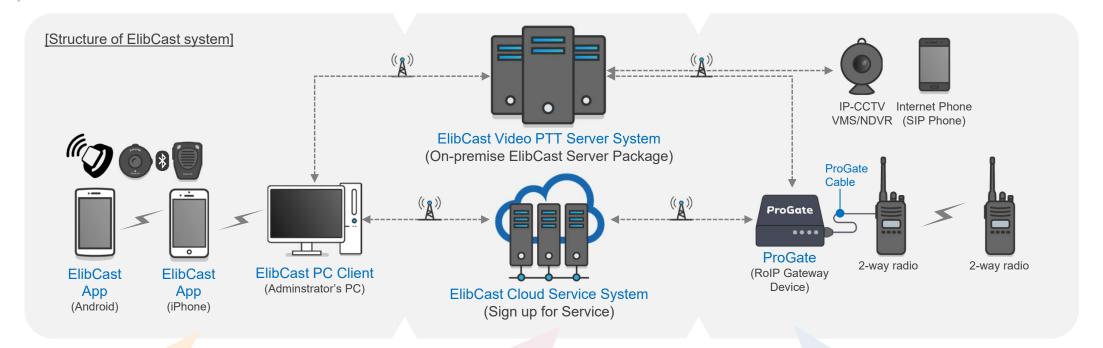
## **Needs and change**

- Video beyond Voice PTT
- Real-time data sharing between users
- No limitation of PTT coverage and expanded service area
- Unlimited number of users and PTT group(channel)
- Create PTT group(channel) in Real-time
- Transmit SOS/Alert messages from administrator/users
- Data encryption for strong security
- Compatability with multiple devices (smartphone, Bluetooth, etc.)
- · Voice PTT compatible with 2way-radio
- Integration with other system and services



# 1. Advantage

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#### Video-based professional PTT App

- Video PTT, Video Sharing, Interrupting PTT, Voice PTT batch transmission
- Real-time data sharing(chatting, photo, location, SOS)

## Various PTT App and support PTT dedicated devices

- iOS/Android, PC Client(Windows) for administrator
- Wearable App, support Bluetooth/wired accessories for PTT

#### Support customizing for PTT App

- changing logo image on top of App, support SDK for development of video PTT App

#### Easy implementation of video PTT service

- On-premise server software, Sign up for service
- Implementation of PTT service in at least one day

#### Real-time management of PTT, Strong security for PTT

- Real-time remote management of PTT channel and users
- SOS/Alert message between users/User's location monitoring and tracking
- support data encryption for PTT(SSL/TLS,AES/ARIA, E2EE)

### Integration with other system and service

- Support ElibCast OpenAPI / Callback API / Plug-in

#### Voice PTT compatible with 2way-radios

- Support RoIP Gateway device(ProGate)
- Analogue/Digital 2way-radio, VHF/UHF/FRS/TRS

#### Compatible with other's system

- Voice PTT compatible with SIP Phone
- Sharing video of IP-CCTV camera

service

- iOS, Android, Windows / for free

- OpenAPI/Callback API/Plug-in

• Integration with customer's system and

## [ElibCast Features]

## 2. Main Functions



• Support changing customer's logo image

at the top of smartphone app

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Wi-Fi/LTE-based Push-To-Talk Service	Professional Video Push-To-Talk	Optimized PTT features for smart devices	Support PC Client(Dispatcher) For administrator(or Center)
<ul> <li>Support full real-time push-to-talk</li> <li>Support both VoIP mode of Full-Duplex and MP3 mode of Half-Duplex</li> <li>For 1:1/1:N, support Video/Voice Push-To-Talk</li> <li>Text chat and Transfer images between users</li> <li>User's location sharing/tracking</li> <li>Push-To-Talk history: play other's recorded PTT</li> </ul>	<ul> <li>Video Sharing PTT: Voice PTT and text chat during real-time video streaming</li> <li>Multi channel connection: connect up to 3 channels(1:N) and no limits channels(1:1) at the same time</li> <li>Interrupting Push-To-Talk</li> <li>SOS message between users</li> <li>Alert message from administrator</li> </ul>	<ul> <li>Smartphone App(iOS, Android):         Professional UI for video Push-To-Talk     </li> <li>Embedded App(Android): Simple UI and Fit to any screen of various devices</li> <li>Support Wearable App(iWatch, android wear)</li> <li>PTT widget and floating PTT button on screen</li> <li>VOX PTT and chat with voice recognition</li> <li>Using PTT button when screen is off</li> <li>Set device's external button/keypad as PTT features</li> <li>Support various Bluetooth/Wired accessories</li> </ul>	<ul> <li>Windows7/IE11 or above</li> <li>Connect up to 64 PTT channels at the same time</li> <li>Video Sharing PTT: Play up to 16 PTT channels' real-time videos from users - Support PC screen sharing and CCTV video sharing</li> <li>Voice PTT batch transmission by administrator after selected several channels</li> <li>Interrupting PTT by administrators</li> <li>Support user's location monitoring and tracking</li> </ul>
Compatible with other's system	Real-time management of PTT service with "Admin Web"	Strong security for PTT	Easy implementation of video PTT service
<ul> <li>Voice PTT compatible with two-way radios         <ul> <li>Analoque/Digital, VHF/UHF/FRS/TRS radios</li> <li>Support RoIP gateway device(ProGate)</li> </ul> </li> <li>Voice PTT compatible with SIP Phone(SIP gateway integration)</li> <li>Sharing video of IP-CCTV camera(RTSP integration)</li> </ul>	Manage user and PTT channel's information     Real-time synchronization about PTT channel and user's information by administrator     Immediately apply changed PTT channel's information to all devices(users) change PTT channel's information per user remotely     Forced reconnection after changing user's information	<ul> <li>Support strong data encryption for PTT         <ul> <li>OTP, SSL/TLS, AES/ARIA, E2EE</li> </ul> </li> <li>No duplicate access of user's account</li> <li>Support IMEI authentication of smart devices</li> <li>Use PTT app in mobile network(3G, LTE) only</li> <li>Server-side PTT/Video recording and search/play</li> <li>Support DNS-based server detection</li> </ul>	<ul> <li>According to the number of users, implementation of video PTT service         <ul> <li>On-premise Server S/W(ElibCast Server Package)</li> <li>Sign up for Service(ASP, ElibCast Cloud Service)</li> </ul> </li> <li>Support ElibCast Applications for free         <ul> <li>You can download apps on stores and homepage</li> </ul> </li> <li>Support SDK for development of video PTT App</li> </ul>

# 3. Provided by ElibCast's products

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According to customer's needs, It's possible to build customer's own video PTT system.

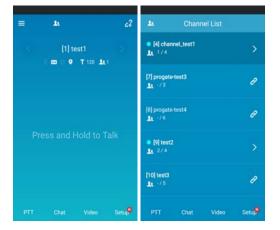
Without building new system, just you can use video PTT service.

Products		ElibCast Server Package(Server Software for PTT)			ElibCast Cloud Service	
		Standard (Single Server)	Enterprise - Stand Alone (Single Server)	Enterprise – Clustered (Dual Server)	(ASP)	
Implementation		On-premise server software (User license per server type, per number of user)			Sign up for service (by monthly plan)	
Operation of system		Customer			Elibrium Consulting Sdn Bhd – elibcast.com	
	Management of sevice	[For operator of customer] Support "Admin Web"  Manage user and PTT channel's information in real-time / changing customer's logo image at the top of smartphone app, etc				
Common Functions	Basic functions	[For user and administrator]: Video/Voice PTT, Text chat, Transfer Image, Monitoring other's PTT history and location				
	Support PTT app(For free)	[For user] Smartphone App(iOS, Android), Embedded App(Android) / [For administrator] PC Client(Windows)				
	Compatible with 2way-radios	Support ProGate(RoIP Gateway device)				
Professional Functions	Video Sharing PTT	Only one user per one channel transmits video.	Multiple users per one channel can transmit video.		Only one user per one channel transmits video.	
	User's location monitoring	Support on "Admin Web"	Support on "PC Client"		Support on "Admin Web"	
	User's location Tracking	-	Support on "PC Client"		-	
	PTT/Video Recording	-	Support server-side	recording and player	-	
	Compatible with other's system	Voice PTT compatible with SIP Phone(SIP gateway integration) Sharing video of IP-CCTV camera(RTSP integration)			-	
	Integration with other's system	Support ElibCast's OpenAPI, Callback API, Plug-in and IMEI authentication of smart devices			Support ElibCast's OpenAPI, Callback API	

# 4. ElibCast's video PTT applications

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Android 4.0 / iOS 8.1 or above

Android 4.0 or above

iOS 9 or above/ Apple Watch 2(iWatch OS 3) only Android OS 6.0.1/Android wear 1.4 or above

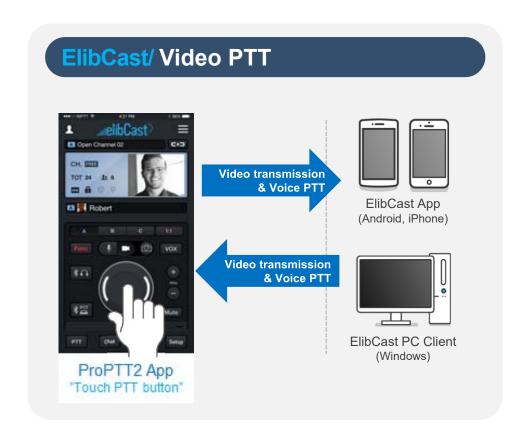
Winodws 7 or above IE 11 or above

Smartphone App	Embedded App	Wearable App	PC Client
For user, Professional PTT App	For User, Simple user interface	For user and smart watch	For administrator, Dispatcher program
<ul> <li>App download</li> <li>Google PlayStore, Apple AppStore</li> </ul>	App download     ElibCast site(www.ElibCast.com)	After download and install smartphone app or embedded app	App download     ElibCast site(www.ElibCast.com)
<ul> <li>✓ Support professional PTT UI and features</li> <li>✓ Various features of setup about video PTT/video sharing</li> </ul>	<ul> <li>✓ Simple GUI/interface for PTT</li> <li>✓ Fit to any screen of devices         <ul> <li>small screen of PTT devices</li> <li>wide screen of tablet(android)</li> </ul> </li> </ul>	✓ Your wearable device paired with your smartphone can be used as a PTT button via ElibCast Wearable App.	<ul> <li>✓ Connect up to 64 PTT channels at the same time</li> <li>✓ Play up to 16 PTT channel's real-time videos from users</li> </ul>

For on-premise server software or sign up for service, ElibCast's app can be downloaded for free

## 5. Video transmission(Video PTT, Video sharing PTT)

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### <u>Video PTT(1:1, 1:N)</u>

When PTT button of app is pressed, you can transmit your voice and video of camera to the others.

- Front/rear camera switching
- Select video quality(72/136/272kbps) on the setup of app



### Vidoe Sharing PTT(1:1, 1:N)

If you press the button for video sharing, you can transmit the video of camera in real-time.

- During the video sharing, you can use voice PTT and text chat.
- Support not only built-in camera, but also external USB camera

## 6. Video Sharing PTT – Support external USB camera

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For convenient video sharing in a various areas, ElibCast supports not only built-in camera in smart devices, but also external USB camera connections.



## 7. Support various PTT dedicated devices

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ElibCast supports various screen resolutions of PTT devices and also supports to use PTT button when the app is in background or the device is screen-off. You can send/receive SOS messages each other by using SOS hard key.

Bluebird Inc.

#### Bluebird Inc.



#### **RP350 Premium Rugged PTT**

(Go to site)

- 1. Supports RP350 device's PTT button (Left, Right) 2. Supports RP350 device's resolution (HVGA 480\*320)
- 3. Supports using PTT button when screen is off



#### Bluebird EF500

(Video) (Go to site)

1. Supports EF500 device's PTT button (Left, Right) 2. Supports EF500 device's resolution (1280\*720



Sonim XP7

(Video) (Go to site)

(WVGA, 480\*800)

4. Supports SOS hard-key

1. Supports XP7 device's PTT button

3. Supports using PTT button when screen is off

2. Supports XP7 device's resolution

. Supports EF400 device's resolution (WVGA,

RugGear

#### RugGear RG730



- Go to site
- 1. Supports RG730 device's PTT button Supports RG730 device's resolution(720\*1280)
- 3. Supports using PTT button when screen is of 4. Supports SOS hard-key



#### RugGear RG740 Go to site

- 1. Supports RG740 device's PTT button 2. Supports RG740 device's resolution(720\*1280)
- 3. Supports using PTT button when screen is off
- 4. Supports SOS hard-key



Sonim Technologies Inc.

#### Bluebird EF500R

(Go to site )

1. Supports EF500R device's PTT button (Left,Right) Supports EF500R device's resolution (1280\*720)



#### Bluebird EF400

Go to site

1. Supports EF400 device's PTT button (Left. Right)



#### RugGear RG310B

(Go to site)

- 1. Supports RG3108 device's PTT button (OVGA, 240\*320)
- 3. Supports using PTT button when screen is off

#### Boxchip

#### Boxchip Co.,Ltd



#### S700 4G/LTE DMR Android radio phone

(Video) (Go to site)

- 1. Supports \$700 device's PTT button
- Supports \$700 device's resolution (400\*480)
   Supports using PTT button when screen is off
- 4. Supports SOS hard-key
- 5. Supports channel change key



#### F25 4G LTE two-way radio phone

(Go to site)

- 1. Supports F25 device's PTT button
- Supports F25 device's keypad input (shortcut)
   Supports F25 device's resolution
- Supports using PTT button when screen is off
   Supports SOS hard-key



#### K-Mobile Technology Co.,LTD



#### F22 3G/LTE Android PTT Smartphone

Sonim XP6

Go to site

1. Supports XP6 device's PTT button

3. Supports using PTT button when screen is off

2. Supports XP6 device's resolution

(WVGA, 320\*432)

4. Supports SOS hard-key

(Video) (Review) (Go to site)

- 1. Supports F22 device's PTT button 2. Supports F22 device's keypad input (shortcut) 3. Supports F22 device's resolution
- 4. Supports using PTT button when screen is off
- (OVGA 240\*320) 5. Supports SOS hard-key



F100 4G PTT phone Go to site

- 1. Supports F100 device's PTT button (Left, Right) 2. Supports F100 device's resolution (WVGA,
- 3. Supports using PTT button when screen is off



#### F30 LTE Android Radio (Video) (Go to site)

- 1. Supports F30 device's PTT button 2. Supports F30 device's resolution
- (OVGA, 240\*320) 3. Supports using PTT button when screen is off
- 4. Supports SOS hard-key



### S88/S88-B LTE DMR Android

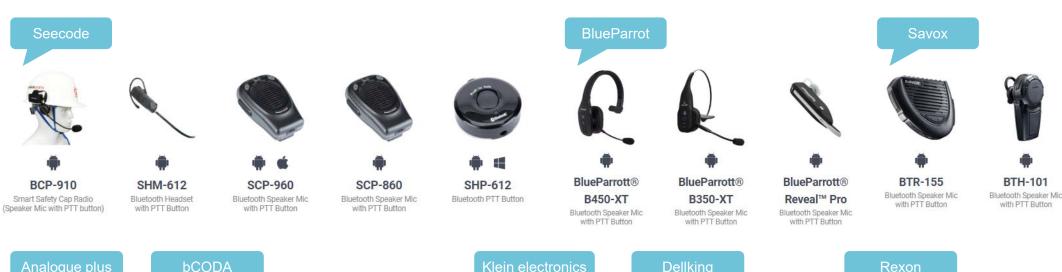
Go to site

- 1. Supports S88/S88-B device's PTT button
- 2. Supports S88/S88-B device's resolution
- 4. Supports SOS hard-key

## 8. Support various PTT accessories – Bluetooth devices

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ElibCast supports using PTT button of Bluetooth device when the app is in background or the device is screen-off.







Ahead Bluetooth Speaker Mic with PTT Button

### **bCODA**



CODA Click Bluetooth PTT Button



CODA Wheel Bluetooth PTT Button



CODA S Bluetooth Speaker Mic with PTT Button

#### Klein electronics



**BLU-PTT** Bluetooth PTT Button

### Dellking



Wandfu-H3 Bluetooth Speaker Mic with PTT Button

Wandfu-H2 Bluetooth Speaker Mic with PTT Button



Rexon BH-580 Bluetooth Speaker Mic with PTT Button



Rexon BT-24HC2 Bluetooth Speaker Mic with PTT Button

## 9. Support various PTT accessories – Wired PTT earphones

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ElibCast supports using PTT button of dedicated ear set when the app is in the background or when the device screen is off.

























# Thank you.

ElibCast | Smart Video Push-To-Talk



