

Product: Purpose: Date: Ascom Handsets and Ascom Unite Instant Group Communicaton 11/15/2010

Configuring Push to Talk Using/Group Conferencing Ascom Handsets & Ascom IGC (Instant Group Communicator).

This document outlines the necessary steps and guidelines to configure a system for Push to Talk (PTT) application using Ascom's handset and IGC. It is assumed that the user has already installed the appropriate UNITE products, according to their respective installation guides and conferencing equipment. (See Related Documents section)

Note that the IGC allows for initiation of group conferencing when Alarm and or Data is sent from the Ascom handset.

The steps, screen shots, and command line syntax depicted throughout this document are based upon d62 software version **3.0.15**, IMS2 software version **2.72**, and IGC software version (XGate) **3.00**.

Equipment	Software
D62 handsets	3.0.15 or later
I62 handsets	2.x
IMS2	2.72 or later
IGC	3.00 or later

Handset Configuration

Device Manager Parameters

There are four ways that we can configure a handset to send a group PTT/Conference message. The creation of a Soft-Key, the creation of a Hot Key, using the Service Menu, or through the use of the Alarm button. All options will require the sending of data/number that will be used by UNITE to establish a PTT conference. For the examples shown below, the data/number was chosen to be "2222", however the data/number is configurable.

Soft Key

Utilizing the Ascom Device Manager, we can first set the soft key to use. In this example we chose the middle soft key and gave it a name of PTTIGC. The soft key must be point to a service which will send the appropriate data/number. In this example we chose to use Service 1. See Figure 1. Service 1 is given a name (Example PTTIGC), a Type (Send Data) and the data/number (2222 in this example). See Figure 2.



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 Edit parameters for 8716 Device type: d62 Protector 		100	X
Parameter version: 25.26			
Settings Connections Profiles Shortcuts Hot Key 2 Hot Key 3 Hot Key 4 Hot Key 5 Hot Key 6 Hot Key 7 Hot Key 8 Hot Key 9 Hot Key 0 Soft Key Left Soft Key Right Navigation Key Up Navigation Key Left Navigation Key Left Soft Key Right Navigation Key Left Soft Key Right Navigation Key Left Soft Key Right Customization Location Bluetooth Data Push to Talk	Name Name Function Value Control Question Read Only	Value PTTIGC Execute_Service_1 Disabled False	0 0 0 0
		ОК	Cancel
	Figure 1		



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		Figure	
Edit parameters for 8716	-	-	X
Device type: d62 Protector			
Parameter version: 25.26			
Hot Key 4	▲ Name	Value	
Hot Key 6	Name	PTT	0
Hot Key 7	Туре	Send Data	6
Hot Key 8	Number	2222	6
Hot Key 9	Prefix		
Hot Key 0			
 Soft Key Left 			
 Soft Key Middle 			
Soft Key Right			
 Navigation Key Up 			
 Navigation Key Down 			
 Navigation Key Left 			
Navigation Key Right			
	=		
Customization			
Services			
7			
7			
↓ 10	-		
· · · · · ·			
		ОК	Cancel

Figure 2



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Hot Key

Utilizing the Device Manager, we can set the Function to Execute a Service. In this example we use Hot Key 0 and point it to Service 1. See figure 3 for Hot Key Configuration.

uoz riolector			
Parameter version: 25.26			
 Identification Systems Settings Connections Profiles Shortcuts Hot Key 2 Hot Key 3 Hot Key 4 Hot Key 5 Hot Key 5 Hot Key 6 Hot Key 7 Hot Key 9 Hot Key 9 Hot Key 9 Soft Key Left Soft Key Left Soft Key Right Navigation Key Up Navigation Key Left Audio Customization Services Alarm 	Name Function Value Control Question Read Only	Value Execute_Service_1 Disabled False	0

Figure 3



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Alarm (Handset License Dependent)

Utilizing the Device Manager, we set the Alarm data/number to have a value of "2222". When a 'Personal Alarm' (two short presses on the alarm button) is sent, the Alarm data/number will be sent to the IGC. See Figure 4 for Alarm button configuration example.

 Edit parameter Device type: Parameter version: 	d62 Protector	new new		×
 Identification Systems Settings Connections Profiles Shortcuts Audio Customization Services Alarm Common Alarm on the Alarm on the Alar	ong press multiple press a	Name Stored alarm data Indicate triggered alarm with LED Indicate triggered alarm with vibrator Indicate triggered alarm with beeper signal Password protect ALS Number for automatic call after alarm	Value 2222 Yes Yes No	
				OK Cancel



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Ascom UNITE Configuration

Configuration of IMS

- 1. Navigate to the IMS web interface (http://xxx.xx.xx/admin)
- 2. If you are using a Soft Key, Hot Key, or Service Menu to generate the PTT functionality, make sure the IMS Message Distribution for Mobile Data includes your IGC address. For this example our IGC address is: 172.20.96.65/EventHandler.

System Setup				
DECT Interface	DEC	r Mess	age Distribution	
<u>General</u> Settings			Mobile Data	Previous
EMN	Destinations	?	127.0.0.1/BAM	Factory
Message Distribution			127.0.0.1/OAP 172.20.96.65/EventHandler	

 If you are using the Alarm to generate the PTT functionality, make sure the IMS Message Distribution for Alarm includes your IGC address. Again for this example our IGC address is: 172.20.96.65/EventHandler.

System Setup				
DECT Interface		DECT Mess	age Distribution	
<u>General</u> Settings			Alarm	Previous
EMN	Destinations	? 🏢	127.0.0.1/BAM	Factory
Message Distribution			127.0.0.1/OAP	
Distribution			172.20.96.65/EventHandler	
DECT Groups				



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Configuration of ACS

- 1. Navigate to the ACS web interface (<u>http://xxx.xx.xx</u>)
- 2. When the ACS web page appears click on the "ESS Administration" button.
- 3. Next click on the "Group Handling" Tab.
- 4. Create a Group that includes the phone numbers you want called when an event occurs and name the Group to match the Data field you set in your "Soft Key", "Hot Key" or "Alarm". For this example we created a Group named "2222 Group" and the handsets in that group are 8716 and 3460.

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(3) + (9) http://272.20.96.50/empu/index.php			🔹 🔁 🤐 🗶 🚮 Gaugie	р •
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Resolution 20 Enhanced System Services				👰 • 🏨 • Toole • "
	Ascom Comm	nunicati	ons Server	14
Home Users Messag	Routing Group Handling	System Overview	Fault Handling Activity Log	
View/Edit Edit Group I Cack to skey and odd the group to Acte that it will take some fun message per Call ID will be to Call ID D 2222 2 Diversion permitted for inclu- @ Yes. ◎ No Member Administration	e lo send a message to a large group unismitted escription 222 Group uded members	as one		
Call ID				
8716		×		
3460		×		
Add Member @ Emply	Copy previous C Increment previ	ous		
Call ID Search	Saw	s Cancel		
Doge			🧔 🚭 Internet Protected Mode: On	€s • \$ 1255 •



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5. Save your new Group and it will appear in the list as shown in the next figure.

A 10- 12	171 71 25 de 40			
Chieffine Ral mot	10/19/20/9630/empa/moergrip			не р. •
Elle Edit View Ig	gvorites Iools Help		II. 😪 👻 😏 This site has not been an	alyzed yet * SI Notify us
Favorites 👔	Enhanced System Services			💁 • 🏨 • Tooli •
		Ascom Comm	nunications Server	-
	Home Users Mer	ssage Routing Group Handling	Bystem Overview Fault Handling Activity Log	
Croups	Groups			ń
	Create new: Group ID	Muthcast Group ID Broad	cast ID Number of small groups. 30 (500), Number of large groups.	0 (50)
	H 1	Ascom Alarm	ViewEdit w	1
	₽ 2	Warehouse Group	ViewEdt	
	III 2222	2722 Group	ViewEdt 🗸	
	H 3	Technical Services	ViewEdt	
	H 4	Ascom server alerts	ViewEdit	
	H 4433	Tom PTT Group	ViewEdt	
	H 4434	Test PTT	ViewEdit	
	H 4435	Dan PTT Group	ViewEdt	
	E 4444	Beep Sound Level Test Group	ViewEdt 🗙	
	5556	Le Mortage	ViewEdt 🗙	
	BOT1		ViowEdt 🗙	
	CNF GRP 1	dave test onf grp 1	ViewEdit 🗙	
	H Nurses	Nurses	ViewEdit	

Configuration of Instant Group Communicator (IGC)

- 1. Open a web browser and navigate to the IGC web page (http://xxx.xxx.xxx.xxx) Click on the "Advanced" button. A login pop-up window will appear. Log into the IGC using the appropriate User name and Password.
- 2. From the "Basic Setup" screen, click the "Advanced" tab and choose the "Configuration" link. This will take you to the "Event Handler Configuration" page
- 3. Create your PTT Event triggers. For this example we will create two Event Triggers: "PTT user data" and "PTT alarm". The "PTT user data" will be used with soft key, hot key, and Services PTT activations and the "PTT alarm" will be used with alarm button activation.



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- Event Handler configuration
 Event Triggers
 PTT user data
 PTT alarm
 Response Triggers
 External Actions
 Delay Actions
 Action Groups
 Translation Tables
 Local Elements
 Persistent Elements
 External Interfaces
 Configuration Overview
- 4. For the "PTT user data" Event. Create a Match Condition that matches the data that was set in the handset. For our example we look for incoming User Data that matches "PTT Group".

Event Handler configuration	Event Trigger: PTT user data
PTT user data	Match Conditions
	State Activated
External Actions Delay Actions	Block time (s) 0 Submit
Translation Tables Local Elements	Session lifetime (s) Submit (0 = unlimited)
Persistent Elements External Interfaces Configuration Overview	Existing Conditions
	Element: [in]User Data/:Data Delete Comparison Type: Part of String Expression: PTT Group



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5. Next we need to create five Assignments. The local variables can be named whatever the installer chooses. (see figure next page)

In Assignment 1, we store the incoming **[in]User Data/:Data** (in our example this will be "PTT Group") in a local variable called **PTT Message**

In Assignment 2, we store the incoming [in]User Data/Delivery/:Source address/User in a local variable called Source User

In Assignment 3, we store the incoming [in]User Data/Delivery/:Source address/Service in a local variable called Source Service

In Assignment 4, we store the incoming [in]User Data/Delivery/:Source address/Service Address in a local variable called Service Address

In Assignment 5, we store the incoming [in]User Data/Delivery/Source Address/IP Address in a local variable called Source IP.

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 Event Handler configuration Event Triggers Match Conditions Assignments Activations PTT alarm Response Triggers External Actions Delay Actions Coal Elements Persistent Elements External Interfaces Configuration Overview 	Event Trigger: PTT user data Element Assignments Add Translation Add Definition Copy Block Add Selection Existing Element Assignments 1 Define Expression: <[in]User Data/Delivery/:Source address/User.complete> Destination: [local]Source User Edit Delete Move 3 Define Expression: <[in]User Data/Delivery/:Source address/Service,complete> Destination: [local]Source Service Edit Delete Move 4 Define Expression: <[in]User Data/Delivery/:Source address/Service address.complete> Destination: [local]Source Service Edit Delete Move 5 Define Expression: <[in]User Data/Delivery/:Source address/Service address.complete> Destination: [local]Source Address Edit Delete Move 5 Define Expression: <[in]User Data/Delivery/:Source address/Service address.complete> Destination: [local]Source Pice Edit Delete Move 5 Define Expression: <[in]User Data/Delivery/:Source address/P address.complete> Destination: [local]Source Pice Edit Delete Move 6 Define Expression: <[in]User Data/Delivery/:Source address/P address.complete> Destination: [local]Source Pice Edit Delete Move



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6. Similarly for the "PTT alarm" Event Trigger. Create a Match Condition that matches the data that was set in the handset. For our example, we look for incoming Alarm that matches "PTT Group".

⊡	Event Trigger: PTT alarm
☐ PTT user data Match Conditions Assignments	Match Conditions
PTT alarm	State Activated
Assignments Activations Response Triggers	Block time (s) 0 Submit
External Actions Delay Actions	Session lifetime (s) O Submit (0 = unlimited)
Action Groups Action Groups Action Tables Decal Elements Persistent Elements Decal Interfaces	Existing Conditions
Configuration Overview	Element: [In]Alarm/:Data Delete Comparison Type: Part of String Expression: PTT Group



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7. Next we need to create five Assignments. The local variables can be named whatever the installer chooses. (see figure next page)

In Assignment 1, we store the incoming **[in]Alarm/:Data** (in our example this will be "PTT Group") in a local variable called **PTT Message**.

In Assignment 2, we store the incoming **[in]Alarm/Delivery/:Source address/User** in a local variable called **Source User**.

In Assignment 3, we store the incoming **[in]Alarm/Delivery/:Source address/Service** in a local variable called **Source Service**.

In Assignment 4, we store the incoming **[in]Alarm/Delivery/:Source address/Service** address in a local variable called **Service Address**.

In Assignment 5, we store the incoming **[in]Alarm/Delivery/Source address/IP address** in a local variable called **Source IP**.

Application Note	ascom
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Event Handler configuration	Event Trigger: PTT alam Element Assignments Add Translation Add Definition Copy Block Add Selection Add Translation Add Definition Copy Block Add Selection Extensional Element Assignments . . Define Expression: <[in]/Alarm/Data.complete> . Costination: [localPTT Message] . Edit Delete Move 2. Define Softination: [localPTT Message] Define Move 3. Pene Move 4. Pene Move 4. Define Move 4. Define 2. Define 2. 1. Move 4.



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8. In order for the originator to function in PTT mode, they must receive the outgoing PTT message. We must create two External Actions: the "Send to Sender" action will send the PTT message to the handset that initiated the PTT request and the "Send to Group minus Sender". action will send the PTT message to the group. We also remove the sender from the group to handle the case where the PTT request is being made by a member of the group. This will prevent the sender from receiving a double message.

Event Handler configuration	External Actions	
PTT user data Match Conditions Assignments Activations Activations Activations Activations Assignments Assignments Assignments Send to Conditions Send to Group minus Sende Send to Sender Delay Actions Action Groups Action Groups Delay Action Tables Decal Elements Persistent Elements External Interfaces Configuration Overview	Add new Add Edit/Delete Send to Group minus Sender Send to Sender Change name Delete Copy	



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9. For the "Send to Group minus Sender" we need to make 13 Assignments The first six assignments are discussed below (see figure next page).

In Assignment 1 we are using our PTT Message as the Call Setup/Delivery/Destination address/User. For our example PTT Message contains the Alarm or User Data **PTT Group**. Therefore the PTT request will go to the group we defined in the ACS as **PTT Group**.

In Assignment 2 we are setting the **Call Setup/:Answer mode**. This will control the answer mode of the handsets that receive the PTT request. For our example we set the answer mode to **Auto** (appears as a 1), There are two choices: Manual (0) and Auto(1).



In Assignment 3 we are setting the **Call Setup/:Beep**. This will control the alerting in the handset, when a PTT event occurs. The value is 0-7 (i.e. 0 = silence, 1 = 1 beep...etc).

In Assignment 4 we are placing the number of the conference bridge followed by a P for pause followed by the conference bridge password, if one is required. (In our example we assign **4444P2588#** as the **Call Setup/:Call number**. Here **4444** is the number of the conference bride and **2588#** is the password.)

In Assignment 5 we are setting the Call Setup/:Call type. For our example the call type was set to **Conference Call** (2). There are three choices: Normal(0), Conference Call individual member initiated(1), and Conference Call(2).

Use predefined value		
Normal	-	Add
Normal		
Conference Call individual member initiation		
Conference Call initiated		

In Assignment 6 we are setting the **Call Setup/:Microphone mode**. There is only one setting available through the drop down window, which is Push To Talk(0). However the user is allowed to enter other digits into the field (1,2...etc), but this will cause the handsets to not function properly for PTT.

Use predefined value		
PTT (push to talk)	•	Add

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 Event Triggers PTT user data Assignments Activations PTT alarm Match Conditions Assignments Activations Response Triggers External Actions Send to Group minus Sender Send Block Response Handling Send to Sender Delay Actions Action Groups Translation Tables Local Elements Persistent Elements External Interfaces Configuration Overview 	External Action: Send to Group minus Sender Add Translation Add Definition Copy Block Add Selection Add Translation Add Definition Add Translation Add Definition Add Translation Add Definition Add Translation Add Definition
	5. Define Expression: 2 Destination: [out]Call Setup/:Call type Edit Delete Move 6. Define Expression: 0 Destination: [out]Call Setup/:Microphone mode Edit Delete Move



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10. Send to Group minus Sender (continued) Assignments 7 through 12 are discussed below.

In Assignment 7, we are setting the **Call Setup/:Speaker mode**. There are three possible settings: Off(0), Normal(1), and Loudspeaking(2). For our example we have selected Loudspeaking mode (2).

Use predefined value		
Off	-	Add
Normal		
Loudspeaking mode		

In Assignment 8, we are setting **Call Setup/:Tag**. This is text that will categorize the sent block. This is primarily used to analyze data in the System Activity Log. For our example we used the text: **PTT Block**.

In Assignment 9, we are setting the **Call Setup/:Text**. This is text that will appear on the handset when a PTT call is received. For our example we used the text: **PTT Call**.

Event Triggers Tuser data Tuser data Match Conditions Assignments Activations Tuser data Match Conditions Activations Activations Assignments Assignments Activations Assignments Activations Activativations Activations Activations Activativations	7. Define Expression: 2 Destination: [out]Call Setup/:Speaker mode Edit Delete Move
Response Triggers	
External Actions	Expression: PTT Block
Send to Group minus Sender	Edit Delete V Move
Response Handling	9.
⊞	Define
Delay Actions	Expression: PTT Call
Action Groups	Destination: [out]Call Setup/:Text
Translation Tables	Edit Delete Move
Developments	



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11. Send to Group minus Sender (continued) Assignments 10 through 13 are discussed below. These assignments are used to exclude the user that initiated the PTT call from the group call, if they are a member of that group.

In Assignment 10, we are setting the **Call Setup/Delivery/:Exclude address(1)/User** to the value of our local variable **Source User**. Earlier we stored the user that triggered the PTT call in this variable.

In Assignment 11 we are setting the **Call Setup/Delivery/:Exclude address(1)/Service** to the value of our local variable **Source Service**. Earlier we stored the source of the user that triggered the PTT call in this variable.

In Assignment 12 we are setting the **Call Setup/Delivery/:Exclude address(1)/Service address** to the value of our local variable **Service Address**. Earlier we stored the service address of the user that triggered the PTT call in this variable.

In Assignment 13 we are setting the **Call Setup/Delivery/:Exclude address(1)/IP address** to the value of our local variable **Source IP**. Earlier we stored the service IP address of the user that triggered the PTT call in this variable.



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12. Next we create a Send to Group minus Sender - Send Block. Here we define an **[out] Call Setup/** block and use the default external interface

🔁 Event Triggers 📃	
🗄 💼 PTT user data 🔤	
Match Conditions	Current Block
Assignments	Current Diock
Activations	
	Block: [out]Call Setup/ Delete
Match Conditions	External Interface: Default
Match Conditions	
Assignments	
Activations	
Response Iriggers	Sat/Change Block
External Actions	Sevenange Block
Send to Group minus Sender	
Assignments	Select which Block to send
🔄 Send Block	
Response Handling	No selection
i ⊡ Send to Sender	
Delay Actions	[out]
Action Groups	No selection
Translation Tables	
Local Elements	Cont
Persistent Elements	
External Interfaces	
Configuration Overview	
	Select External Interface or use default
	Default 🔹
Evenend All Colleges All	Submit Remove
Collapse All	
]	



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13. Next we need to create our assignments in the Send to Sender external action.

The first assignment stores the user who generated the PTT event in the Call Setup/Delivery/Destination/:Destination address/User. The remaining eight assignments are the same as we did above in **the Send to Group minus Sender** external action. We do not need assignments 10 through 13.

Activations	External Action: Send to Sender
PTT alarm PTT alarm Match Conditions Assignments	Element Assignments
Activations Activations Activations External Actions	Add Translation Add Definition Copy Block Add Selection
Send to Group minus Assignments Send Block Besponse Handlir Send to Sender Assignments Send Block Besponse Handlir Send Block Besponse Handlir	Existing Element Assignments 1. Define Expression: <[local]Source User,complete> Destination: [out]Call Setup/Delivery/:Destination address/User Edit Delete Move
Action Groups Action Tables Cocal Elements Cocal Elements External Interfaces Configuration Overview	2. Define Expression: 1 Destination: [out]Call Setup/:Answer mode Edit Delete Move
	3. Define Expression: 2 Destination: [out]Call Setup/:Beep Edit Delete Move
	4. Define Expression: 4433P2580# Destination: [out]Call Setup/:Call number Edit Delete Move
	5. Define Expression: 2 Destination: [out]Call Setup/:Call type Edit Delete Move
	6. Define Expression: 0 Destination: [out]Call Setup/:Microphone mode Edit Delete Move



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Assignments Activations PTT alarm Assignments Assignments Assignments Activations Activations Conditions Condi	7. Define Expression: 2 Destination: [out]Call Setup/:Speaker mode Edit Delete — Move
External Actions External Actions Send to Group minus Assignments Send Block Send to Sender Send to Sender Send Block Send Block Besponse Handlir Comparison Comparison Delay Actions Delay Actions Delay Actions Delay Actions Delay Actions Delay Actions Delay Actions Delay Actions Delay Actions Delay Action Groups Delay Action Tables Comparison Dersistent Elements	8. Define Expression: PTT Block Destination: [out]Call Setup/:Tag Edit Delete Move 9. Define Expression: PTT Call Destination: [out]Call Setup/:Text Edit Delete Move



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14. Next we create a Send to Sender - Send Block. Here we define an **[out] Call Setup/** block and use the default external interface

Assignments Activations Activations Activations Activations Assignments Activations Activations Activations Activations Activations Activations Activations Activations Activations Assignments Send to Group minus Assignments Send to Sender Assignments Send to Sender Assignments Bereficient to Sender Action Groups Action Groups Action Groups Action Coups Action Action Coups Action Action Coups Action	Current Block Block: [out]Call Setup/ External Interface: Default Delete Set/Change Block Select which Block to send No selection [out]]] No selection [out]]]
	Select External Interface or use default Default
Expand All Collapse All	Submit Remove



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15. Now that we have created our two actions we can create our Action Group. For our example we have created the Action Group: **Send to Sender and Group** and in the group we included both of our external actions: **Send to Sender** and **Send to Group minus Sender**

Activations	Action Group: Send to Sender and Group
Match Conditions Assignments Activations Activations Conditions Activations Conditions Activations Conditions Activations Conditions Activations Conditions Activations Conditions Activations Conditions Conditions Activations Conditions Conditions Conditions Activations Conditions Conditions Activations Conditions Conditions Activations Conditions Conditions Activations Conditions Activations Conditions Activations Conditions Activations Conditions Activations Conditions Action Groups Conditions Conditions Action Coups Conditions Conditions Action Coups Conditions Conditions Conditions Conditions Action Coups Conditions Conditions Conditions Conditions Action Coups Conditions Conditions Conditions Conditions Conditions Action Coups Conditions Condi	Change Name Delete Group Actions that shall be run together into an Action Group
	Add/Remove Actions to/from Action Group External Actions No selection Delay Actions No selection (Create) Add
Persistent Elements External Interfaces Configuration Overview Expand All Collapse All	Existing Actions in selected Action Group 1. External Action / Send to Sender 2. External Action / Send to Group minus Sender Delete Output Delete Output Delete Output Delete Delete Delete Delete Delete Delete Delete Delete Delete



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16. Lastly we need to go back to our PTT User Data trigger and our PTT alarm trigger and set our Default Activations to the Action Group: **Send to Sender and Group**.

Event Handler configuration Event Triggers PTT user data Match Conditions Assignments Activations PTT alarm Response Triggers External Actions Delay Actions Event Action Groups Configuration Overview	Event Trigger: PTT user data Activations Default Activation Existing: Action Group: Send to Sender and Group Delete Set Default ActivationActivate Type (create) No selection Submit
Event Triggers PTT user data PTT alarm Match Conditions Assignments Activations Activations Send to Group minus Assignments Send Block Besponse Handlir Send to Sender Assignments Send Block Besponse Handlir Send Block Besponse Handlir	Event Trigger: PTT alarm Activations Default Activation Existing: Action Group: Send to Sender and Group Delete Set Default ActivationActivate Type (create) No selection Submit

Technical Support Contact Information

Ascom U.S. technical support can be obtained through the following:



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Phone: 1-877-71ASCOM or 1-877-712-7266

Email: techsupport@ascomwireless.com

Reference Documents

TD 92338GB	Installation and Operation Manual XGate (IGC)
TD 92364GB	User Manual Administration, XGate (IGC)
TD 92329GB	Programming Guide, Event Handler (IGC)
TD 92232GB	Installation Guide ELLISE2
TD 92161GB	Installation and Operation Manual Integrated Message Server (IMS)
TD 92253GB	Installation and Operation Manual for Enhanced System Services (ACS)