

# Application Note



Product: Ascom AA60 Voice Appliance, UNITE with Rauland Responder 5  
Purpose: Configuration of Ascom AA60, T1 VoIP Gateway and Unite with Rauland Responder 5  
Date: February 16, 2011

## Introduction

This document outlines the necessary steps and guidelines to integrate the Ascom Unite Messaging System with Rauland Responder 5 System and the Ascom AA60, serving as the call management application for Rauland Responder 5, with the Ascom T1 VoIP Gateway. **[NOTE: The AA60 is not required if Ascom handsets are to be treated simply as SIP endpoints in a PBX for which SIP interoperability has been tested and verified by Ascom].** There are two scenarios for this implementation; 1) The Responder 5 initiates calls to an Ascom portable when any selected patient event is triggered. 2) The Responder 5 sends a text message to the Ascom portable which then allows the user to call back into the patient room, if desired.

This guide is intended for someone knowledgeable on the configuration of the Ascom T1 VoIP Gateway and AA60 and is assumed that the user has already installed Unite products, according to their respective installation guides. (See Related Documents section). The steps, screenshots, and guidelines depicted throughout this document are based upon Ascom VoIP Gateway software version 7.00 hf3, AA60 software version C.3.1 and Unite Medamax Gateway software version 3.00.

The Rauland Responder 5 (R5) will register audio stations as SIP extensions on a Brekeke SIP Server, software version 2.3.8.2. . The AA60 establishes a SIP trunk with the T1 VoIP Gateway and another SIP trunk with the Brekeke SIP Server, in order to broker calls between the R5 and Ascom handsets.

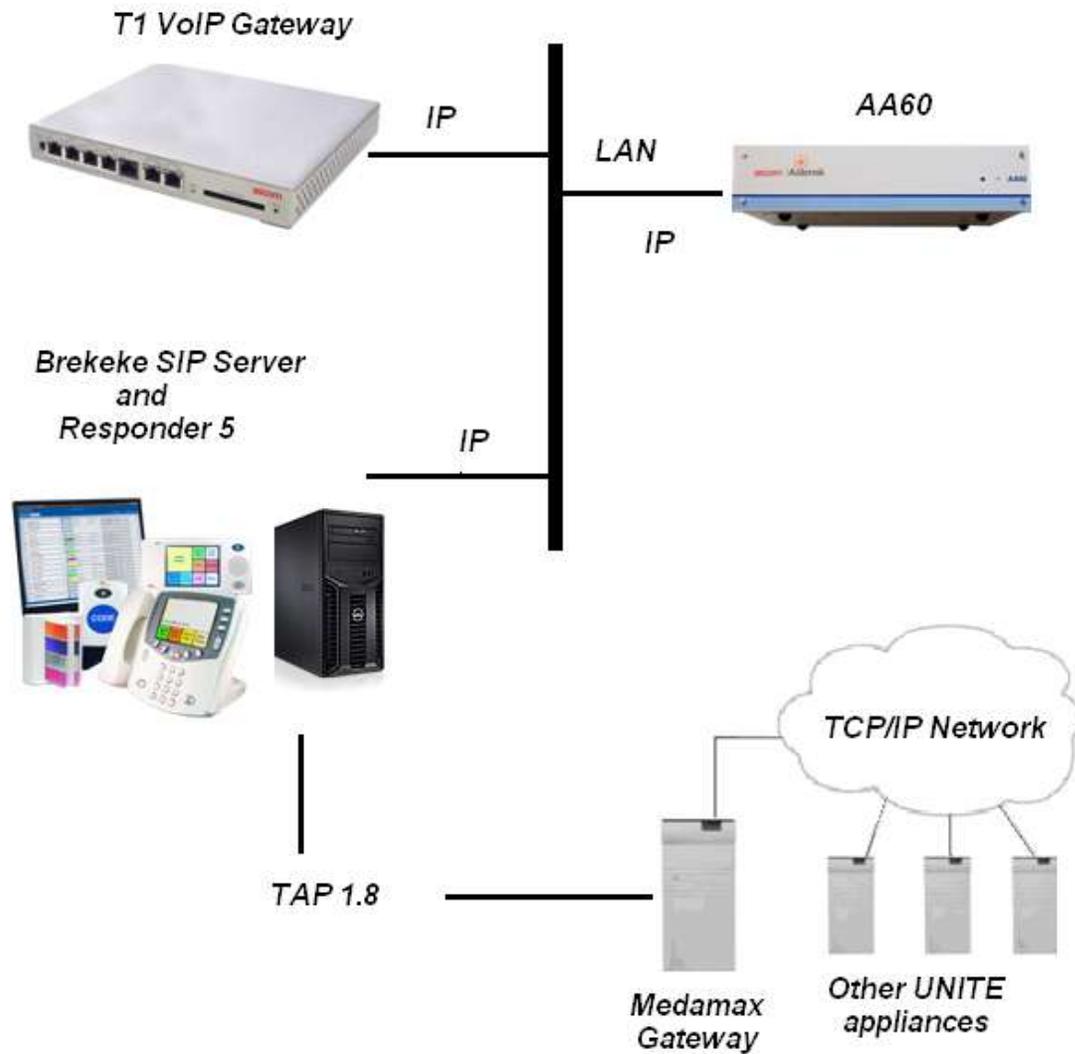
Appendix A provides a description of the recommended settings and configuration for a Rauland Responder 5. For detailed information contact your Rauland technical support representative.

Manufacturer	Rauland Borg Corporation
Manufacturer products	Responder 5
Physical interface method	RS232 with 9600, 7, E, 1, no flow control
Protocol	TAP 1.8
UNITE Product	Medamax Gateway (SW version 3.00)

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## AA60 Initial Setup

The AA60 is initially configured to obtain an IP address using DHCP. Once booted, a connected monitor will display the AA60's IP Address on the main screen. Using Firefox, or similar browser, enter the IP address of the AA60 into the address bar (<http://XXX.XXX.XXX.XXX>) on another computer connected to the same LAN.

## Ascom AA60 Network Configuration

The AA60 shall be configured with a static IP Address. Follow the below steps to change the IP Address to a static address.

1. With a compatible web browser, navigate to <http://AA60-IPADDRESS:10000> (where AA60-IPADDRESS is the IP Address of the AA60).
2. Sign in with Username *root* and associated Password (i.e. password, changeme, etc.)
3. Click on the *Networking -> Network Configuration -> Network Interfaces* link and then choose the *Activated at Boot* tab.

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## Network Interfaces

[Active Now](#) **[Activated at Boot](#)**

Interfaces listed in this table will be activated when the system boots up, and will generally be active now too.

[Select all.](#) | [Invert selection.](#) | [Add a new interface.](#) | [Add a new address range.](#)

Name	Type	IP Address	Netmask	Activate at boot
<input type="checkbox"/> eth0	Ethernet	172.20.96.200	255.255.255.0	Yes
<input type="checkbox"/> lo	Loopback	127.0.0.1	255.0.0.0	Yes
ppp0	PPP (PPP Dialup Client) Automatic		Automatic	No

[Select all.](#) | [Invert selection.](#) | [Add a new interface.](#) | [Add a new address range.](#)

[← Return to network configuration](#)

4. Click on the *eth0* link and after the *Edit Bootup Interface* appears, choose Static Configuration. Enter the desired IP Address, Netmask, and Broadcast values. Click SAVE.

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## Edit Bootup Interface

Boot Time Interface Parameters			
Name	eth0	Activate at boot?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Address source	<input type="radio"/> From DHCP		
	<input type="radio"/> From BOOTP		
	<input checked="" type="radio"/> Static configuration	IP Address	<input type="text" value="172.20.96.200"/>
		Netmask	<input type="text" value="255.255.255.0"/>
		Broadcast	<input type="text" value="172.20.96.255"/>
MTU	<input checked="" type="radio"/> Default <input type="radio"/> <input type="text"/>	Virtual interfaces	0 (Add virtual interface)

[Return to network interfaces](#)

- Return to the **Network Configuration** page and choose *Routing and Gateways*. For **Default routes**, enter the appropriate *Gateway* address for *Interface eth0* and **Save** the settings

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## Routing and Gateways

Boot time configuration	Active configuration								
This section allows you to configure the routes that are activated when the system boots up, or when network settings are fully re-applied.									
<b>Routing configuration activated at boot time</b>									
Default routes	<table border="1"><thead><tr><th>Interface</th><th>Gateway</th></tr></thead><tbody><tr><td>eth0 <input type="text"/></td><td><input type="text" value="172.20.96.2"/></td></tr><tr><td><input type="text"/></td><td><input type="text"/></td></tr></tbody></table>	Interface	Gateway	eth0 <input type="text"/>	<input type="text" value="172.20.96.2"/>	<input type="text"/>	<input type="text"/>		
	Interface	Gateway							
eth0 <input type="text"/>	<input type="text" value="172.20.96.2"/>								
<input type="text"/>	<input type="text"/>								
Act as router?	<input type="radio"/> Yes <input checked="" type="radio"/> No								
Static routes	<table border="1"><thead><tr><th>Interface</th><th>Network</th><th>Netmask</th><th>Gateway</th></tr></thead><tbody><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></tbody></table>	Interface	Network	Netmask	Gateway	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Interface	Network	Netmask	Gateway					
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>						
Local routes	<table border="1"><thead><tr><th>Interface</th><th>Network</th><th>Netmask</th></tr></thead><tbody><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></tbody></table>	Interface	Network	Netmask	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	Interface	Network	Netmask						
<input type="text"/>	<input type="text"/>	<input type="text"/>							

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6. Navigate to the *System->Bootup and Shutdown* page and select the *Reboot System* button. The system will take a couple of minutes to reboot.



## Upload Default Configuration for R5

The AA60 default configuration backup for R5 includes necessary system settings as well as predefined configuration examples to assist in initially configuring the unit. To upload the configuration file, you will need to connect to the AA60 via a SFTP application, such as WinSCP.

1. Connect to the AA60 as 'root' with an SFTP application.
2. Navigate to the following directory: "/var/lib/asterisk/gui\_backups"
3. Copy the default configuration backup for R5 to this directory.
4. Connect to the AA60 configuration GUI with a compatible web browser
5. Navigate to the *Backup* tab and restore the default configuration backup for R5.

If unable to connect to the AA60 with an SFTP application, please ensure the following settings are enabled.

### SSH allows root login

1. Connect to the AA60 as 'root' with an SSH client, such as putty.
2. Edit the sshd\_config file (vim /etc/ssh/sshd\_config)
3. Uncomment out the line "PermitRootLogin yes".
4. Save the file (":wq").

### Root password established for SSH

1. Connect to the AA60 as 'root' with an SSH client, such as putty.
2. At the root prompt, enter command "passwd root" and follow instructions on setting the password.

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### ***Scenario I – R5 Calls to Ascom Portable Handsets***

#### **SIP Trunk to IGWP**

If the R5 will be originating calls to Ascom handsets (no UNITE included in solution), then a SIP trunk to the IGWP must be configured. **[NOTE: Scenario 1 requires and additional Gatekeeper License in the VoIP Gateway].**

#### AA60 setup

1. Connect to the AA60 configuration GUI with a compatible web browser, using the following address: <http://AA60-IPADDRESS:8088> (where AA60-IPADDRESS is the IP Address of the AA60).
2. Navigate to the *Trunks* tab and click on *VoIP trunks*.
3. A predefined VoIP trunk for the IGWP is included in the default configuration for R5, called "IGWP".
4. Edit this trunk and set the IP Address to the T1 VoIP Gateway IP Address into the hostname field.

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The screenshot displays the Ascom configuration web interface. On the left is a navigation menu with options like 'Trunks', 'Outgoing Calling Rules', 'Dial Plans', etc. The main area shows a table of SIP trunks:

Provider Name	Type	Hostname/IP	Username
IGWP	SIP	172.20.96.120	IGWP
BREKEKE	SIP	172.20.96.193	BREKEKE

Below the table is a 'Edit SIP trunk trunk\_1' dialog box. It contains the following fields and options:

- Provider Name: IGWP
- Hostname: 172.20.96.120
- Username: IGWP
- Password: (empty)
- Codecs: First: u-law, Second: None, Third: None, Fourth: None, Fifth: None
- CallerID: (empty)
- FromDomain: (empty)
- FromUser: (empty)
- AuthUser: (empty)
- insecure: no
- Outbound Proxy: (empty)
- Enable Remote MWI: (unchecked)

Buttons for 'Cancel' and 'Save' are at the bottom.

## SIP Trunk to Brekeke SIP Server

If the Rauland 5 will be registering audio stations through a Brekeke SIP Server, then a SIP trunk from the Brekeke must be configured.

### AA60 setup

1. Connect to the AA60 configuration GUI with a compatible web browser, using the following address: <http://AA60-IPADDRESS:8088> (where AA60-IPADDRESS is the IP Address of the AA60).
2. Navigate to the *Trunks* tab and click on *VoIP trunks*.
3. A predefined VoIP trunk for the Brekeke is included in the default configuration for R5, called "Brekeke".

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4. Edit this trunk and set the IP Address to the the Brekeke SIP Server IP Address in the hostname field.

The screenshot shows the configuration interface for SIP trunks. On the left is a navigation menu with options like 'Configure Hardware', 'Trunks', 'Outgoing Calling Rules', etc. The main area shows a table of trunks with columns for Provider Name, Type, Hostname/IP, and Username. Below the table is a dialog box titled 'Edit SIP trunk trunk\_4' with the following fields:

- Provider Name: BREKEKE
- Hostname: 172.20.96.193
- Username: BREKEKE
- Password: (empty)
- Codecs: First: u-law, Second: None, Third: None, Fourth: None, Fifth: None
- CallerID: (empty)
- FromDomain: (empty)
- FromUser: (empty)
- AuthUser: (empty)
- insecure: no
- Outbound Proxy: (empty)
- Enable Remote MWI: (unchecked)

Buttons for 'Cancel' and 'Save' are at the bottom of the dialog box.

## T1 VoIP Gateway setup

1. Connect to the T1 VoIP Gateway configuration GUI with a compatible web browser.
2. Navigate to *PBX* → *Objects* and add a new Gateway object for "IGWP" with the following parameters:
  - a. Long Name = "IGWP"
  - b. Name = "IGWP"

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Long Name	IGWP	Display Name	
Name	IGWP	Number	
Password		retype Password	
Hardware ID			
Node	root	Hide from LDAP	<input type="checkbox"/>
PBX	.	Local	<input type="checkbox"/>
Config Template			
Config			
Filter		Diversion Filter	
Response Timeout		Busy On ... Calls	
No Inband Disconnect	<input type="checkbox"/>		
Reject ext. Calls <input type="checkbox"/>			
Gateway			
Enblock Count			
Enblock as Diverting No	<input type="checkbox"/>		
Prefix	<input type="checkbox"/>		
International Match			
National Match			
Subscriber Match			
OK Apply Delete Cancel			

3. Navigate to the *Gateway* tab and click on *GK* tab.
4. Define a GW interface with the following parameters:
  - a. Name = "From\_AA60"
  - b. Protocol = "SIP"
  - c. Mode = "Gateway without Registration"
  - d. Domain = AA60-IPADDRESS  
(where AA60-IPADDRESS is the IP Address of the AA60)
  - e. General Coder Preference = "G711u"
  - f. Local Coder Preference = "G711u"

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Name

Disable

Protocol

Mode

Domain

Proxy  (optional)

STUN Server  (optional)

Local Port

### Authorization

Name

Password  Retype

### Alias List

Name	Number
<input type="text"/>	<input type="text"/>

### Media Properties

General Coder Preference  Framesize [ms]  Silence Compression  Exclusive

Local Network Coder  Framesize [ms]  Silence Compression

Enable T.38  Enable SRTP  No DTMF Detection  Enable PCM

### SIP Interop Tweaks

Accept INVITE's from Anywhere  (affects registered interfaces only)

Enforce Sending Complete  (affects outgoing SIP calls only)

No Inband Information on Error  (affects incoming SIP calls only)

From Header when Sending INVITE  (affects registered interfaces only)

Identity Header when Sending INVITE  (affects registered interfaces only)

Reliability of Provisional Responses  (affects outgoing SIP calls only)

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5. Navigate to *Gateway* → *GK*
6. Make sure the From\_AA60 registers as 0.0.0.0, if you see a nonzero IP address, delete the From\_AA60 Interface and rebuild it.

The screenshot shows the 'VoIP Gateway' configuration page. The 'GK' tab is selected. On the left, there is a 'Configuration' menu with options: General, IP, ETH0, ETH1, LDAP, PRI1, PRI2, PRI3, PRI4, TEL, Administration, PBX, Gateway, and Download. The main area displays a table of gateway interfaces.

Interface	CGPN-In	CDPN-In	CGPN-Out	CDPN-Out	Alias	Registration	Product
GW1 From_AA60	+					0.0.0.0	
GW2	+						
GW3	+						
GW4	+						
GW5	+						
GW6	+						
GW7	+						
GW8	+						
GW9	+						
GW10	+						
GW11	+						
GW12	+						

7. Define a GW interface for the local IGWP objects with the following parameters:
  - a. Name = "Local-IGWP"
  - b. Protocol = "H323"
  - c. Mode = "Register as Gateway"
  - d. Gatekeeper Address = "127.0.0.1"
  - e. Alias Name = "IGWP"
  - f. General Coder Preference = "G711u"
  - g. Local Coder Preference = "G711u"

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Name	<input type="text" value="Local-IGWP"/>
Disable	<input type="checkbox"/>
Protocol	<input type="text" value="H323"/>
Mode	<input type="text" value="Register as Gateway"/>
Gatekeeper Address	<input type="text" value="127.0.0.1"/> (primary)
Gatekeeper Address	<input type="text"/> (secondary)
Mask	<input type="text"/>
Gatekeeper Identifier	<input type="text"/>
Local Port	<input type="text"/>
Authorization	
Password	<input type="text"/>
Retype	<input type="text"/>
Alias List	
<b>Name</b>	<b>Number</b>
<input type="text" value="IGWP"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
Media Properties	
General Coder Preference	<input type="text" value="G711u"/> Framesize [ms] <input type="text" value="30"/> Silence Compression <input type="checkbox"/> Exclusive <input type="checkbox"/>
Local Network Coder	<input type="text" value="G711u"/> Framesize [ms] <input type="text" value="30"/> Silence Compression <input type="checkbox"/>
Enable T.38	<input type="checkbox"/> Enable SRTP <input type="checkbox"/> No DTMF Detection <input type="checkbox"/> Enable PCM <input type="checkbox"/>
H.323 Interop Tweaks	
No Faststart	<input type="checkbox"/> No H.245 Tunneling <input type="checkbox"/>
Suppress HLC	<input type="checkbox"/> Suppress FTY <input type="checkbox"/> Suppress Subaddr <input type="checkbox"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/> <input type="button" value="Delete"/>	

8. Navigate to *Gateway* → *Routes*.
9. Add a route that allows calls from the AA60 to the IGWP objects.
  - a. Description = "from AA60"
  - b. Check GW interface defined as "From\_AA60" as the origin interface
  - c. Enable Interworking (QSIG,SIP)
  - d. Select GW interface defined as "Local-IGWP" as the destination interface

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Description  Disable

<input type="checkbox"/> PRI1 PBX_1	<input type="checkbox"/> GW1 From_AA60	<input type="text"/>	→	<input type="text"/>	GW12 Local-IGWP
<input type="checkbox"/> RP1 PBX_1	<input checked="" type="checkbox"/> GW2	<input type="text"/>		<input type="text"/>	Cause(DISC) <input type="text"/>
<input type="checkbox"/> PRI2	<input type="checkbox"/> GW3	<div style="border: 1px solid black; padding: 5px;"><p>Add UII <input type="text"/></p><p>Final Route <input type="checkbox"/></p><p>Final Map <input type="checkbox"/></p><p>No Reroute on wrong No <input type="checkbox"/></p><p>Verify CGPN <input type="checkbox"/></p><p>Interworking(QSIG,SIP) <input checked="" type="checkbox"/></p><p>Rerouting as Deflection <input type="checkbox"/></p><p>Routing on Diverting No <input type="checkbox"/></p><p>Force enblock <input type="checkbox"/></p><p>Add # <input type="checkbox"/></p><p>Disable Echo Canceler <input type="checkbox"/></p><p>Call Counter <input type="text"/> max <input type="text"/></p></div>			
<input type="checkbox"/> PRI3 PBX_2	<input type="checkbox"/> GW4				
<input type="checkbox"/> TEST	<input type="checkbox"/> GW5				
<input type="checkbox"/> TONE	<input type="checkbox"/> GW6				
<input type="checkbox"/> HTTP	<input type="checkbox"/> GW7				
<input type="checkbox"/> ECHO	<input type="checkbox"/> GW8				
<input type="checkbox"/> CONF	<input type="checkbox"/> GW9				
<input type="checkbox"/> SIP1 To_AA60	<input type="checkbox"/> GW10				
<input type="checkbox"/> RS1 To_AA60	<input type="checkbox"/> GW11				
<input type="checkbox"/> SIP2	<input type="checkbox"/> GW12 Local-IGWP				
<input type="checkbox"/> SIP3					
<input type="checkbox"/> SIP4					

OK Cancel Apply Delete

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## Scenario II – Text Messaging with Callback

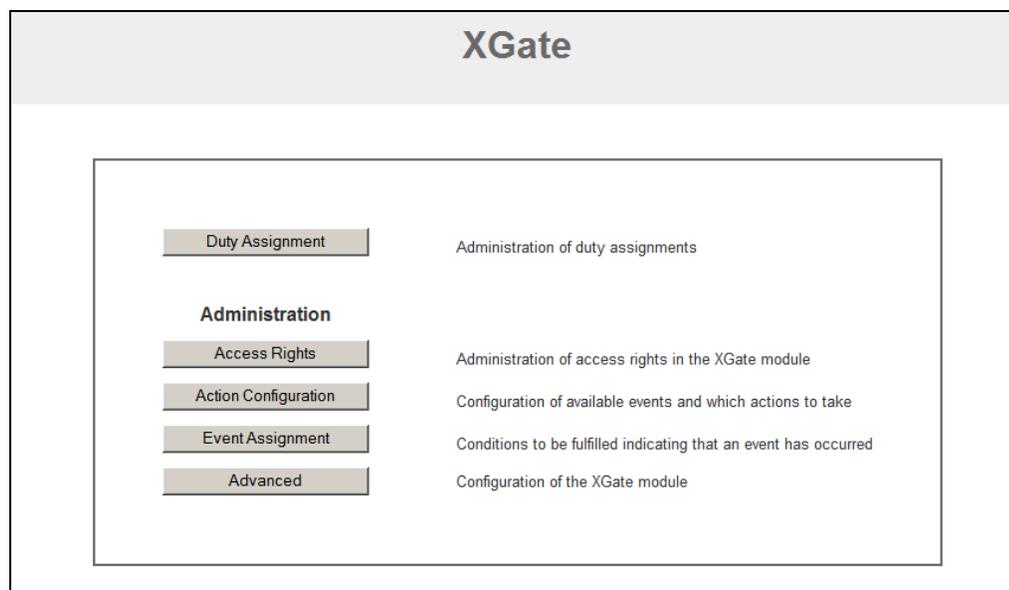
### Ascom Unite Configuration

#### Medamax Gateway

The Medamax Gateway is a Unite module based on the ELISE hardware. It receives input from other Unite modules or from external equipment. The main functionality of the Medamax Gateway is to handle different types of protocol. It will convert events to actions in our systems, and also to provide an assignment interface to offer the ability for users to dynamically assign recipients to events.

#### Configuration of Medamax Gateway

1. Navigate to the Medamax Gateway web administration page (<http://xxx.xxx.xxx.xxx>). This will take you to the “Basic Setup” screen Click on the “Advanced” button. A login pop-up window will appear. Log into the Medamax Gateway using the appropriate Username and Password.

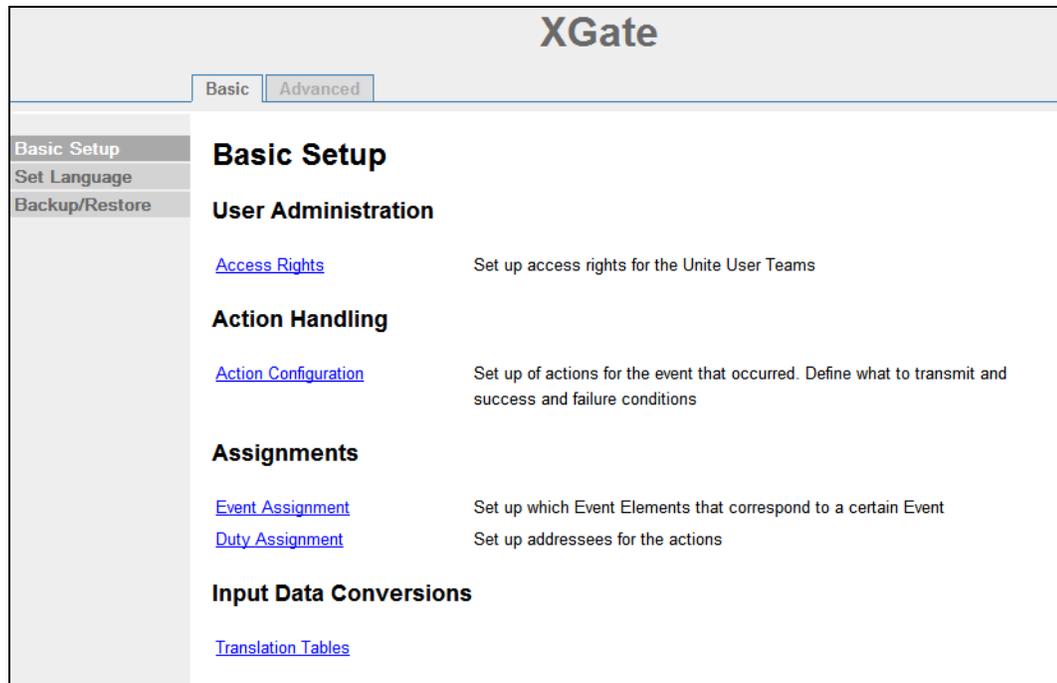


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2. On the “Basic Setup” screen, click on the “Backup/Restore” button on the left-hand side of the page

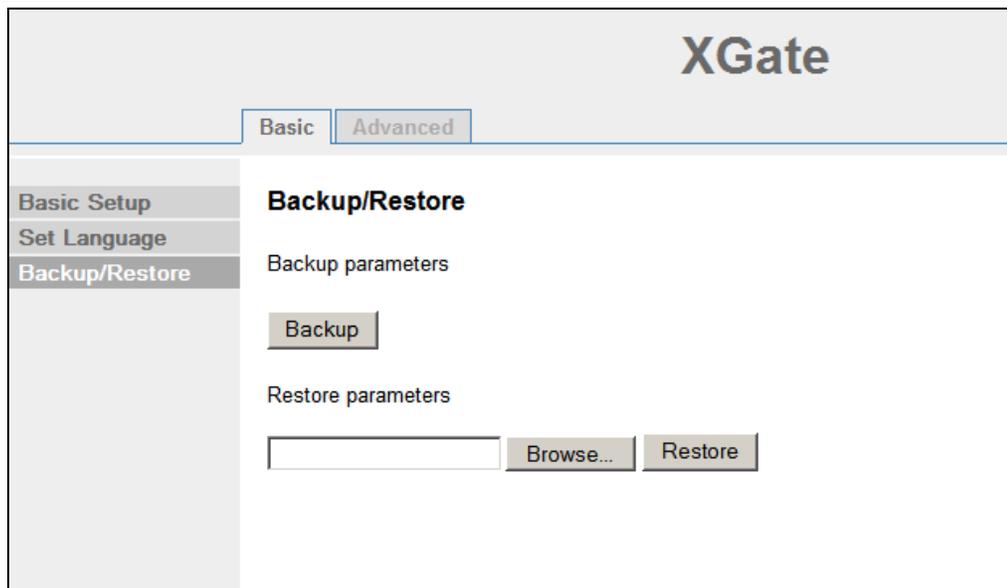


3. The next screen that is displayed is the “Backup/Restore” screen. Click on the “Browse...” button. When the Choose file pop-up window appears, navigate to where you have stored a Medamax/Rauland 5 basic configuration template. If one does not exist contact your support team. Select the file and click the open button.
4. Click the “Restore” button. The “Browse” and “Restore” buttons will disappear momentarily while the file is being restored. Wait until the restoration has completed and click on the “Advanced” tab.

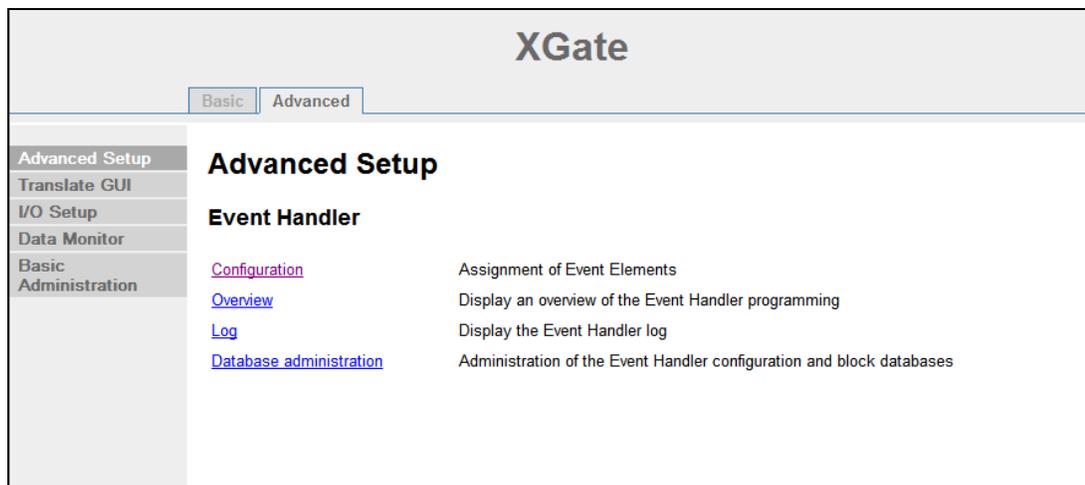
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5. Click on the “Configuration” link. You will be taken to the “Event Handler Configuration” screen.

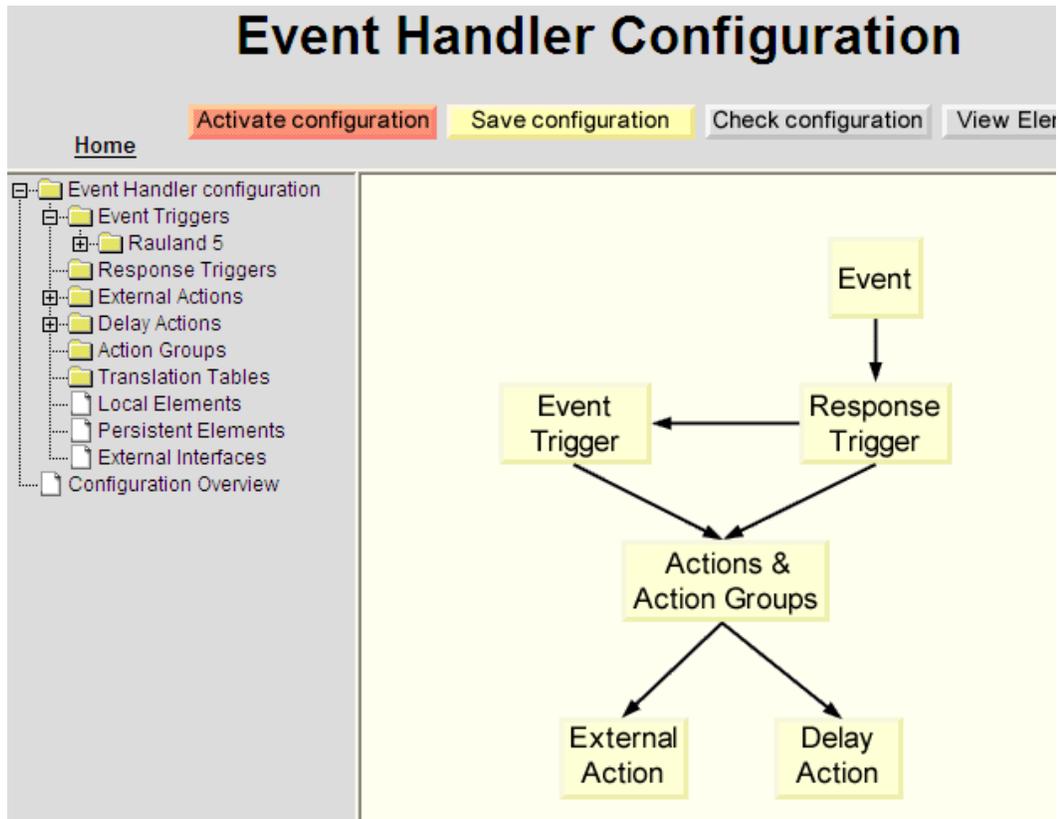


6. On the Event Handler Configuration screen, click on the “+” sign next to the Event Triggers” and make sure you see Rauland 5 in the expanded list. If there is no Rauland 5 folder under Event Triggers, repeat steps 2 through 4.

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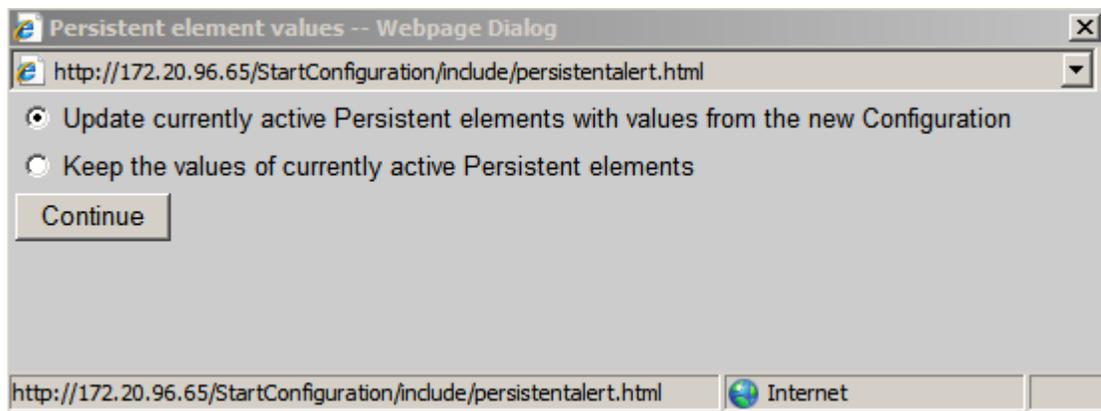
7. Modify the Event Elements and Action Configuration to the specific customer. The default configuration details are outlined in Appendix B.

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- To complete the restoration, we now need to activate it. Click on the Activate configuration button at the top center of the “Event Handler Configuration screen. A new pop-up window will appear. Click on the “Update Persistent elements” radio button and click “Continue”. Another pop-up window will appear saying the “Configuration successfully activated”, click “OK”



### Medamax TAP Port Settings

If the R5 Nurse Call system will be sending messages to the Ascom handsets, then a TAP port must be configured on the Medamax. See XGate – Installation and Operation Manual TD 92338GB for TAP Setup information. Set the TAP values to match those of the Rauland R5.

### SIP Trunk from IGWP

If the Ascom handsets (UNITE included in solution) will be originating calls to the R5 Nurse Call, then a SIP trunk from the IGWP must be configured.

#### AA60 setup

- Connect to the AA60 configuration GUI with a compatible web browser using the following address: <http://AA60-IPADDRESS:8088> (where AA60-IPADDRESS is the IP Address of the AA60).
- Navigate to the *Users* tab.
- A predefined user for the IGWP is included in the default configuration for R5, extension “6001”. Edit this extension if it conflicts with the overall dial plan.

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## SIP Trunk from Brekeke

If the Rauland 5 will be registering audio stations through a Brekeke SIP Server, then a SIP trunk from the Brekeke must be configured.

### AA60 setup

1. Connect to the AA60 configuration GUI with a compatible web browser, using the following address: <http://AA60-IPADDRESS:8088> (where AA60-IPADDRESS is the IP Address of the AA60).
2. Navigate to the *Users* tab.
3. A predefined user for the Brekeke is included in the default configuration for R5, extension “6000”. Edit this extension if it conflicts with the overall dial plan.

The screenshot shows the configuration interface for the AA60. On the left is a navigation menu with options: Configure Hardware, mISDN Config, Trunks, Outgoing Calling Rules, Dial Plans, and Users. The 'Users' option is selected. At the top of the main area are three buttons: 'Create New User', 'Modify Selected Users', and 'Delete Selected Users'. Below these is the title 'List of User Extensions' and a table with the following data:

<input type="checkbox"/>	Extension	Full Name	Port	SIP	IAX	DialPlan	OutBound CID	<input type="button" value="Edit"/>
<input type="checkbox"/>	6000	FROM_IGWP	--	Yes	--	TO_BREKEKE	none	<input type="button" value="Edit"/>
<input type="checkbox"/>	6001	FROM_BREKEKE	--	Yes	--	TO_IGWP	none	<input type="button" value="Edit"/>

### T1 VoIP Gateway setup

1. Navigate to *PBX* → *Objects* and add a new Gateway object for “To\_AA60” with the following parameters:
  - a. Long Name = “To\_AA60”
  - b. Name = “To\_AA60”
  - c. Number = Defined R5 extension number plan prefix (i.e. 6 when all extensions start with a 6)

Note: a universal number plan must exist between the R5 audio station extensions, Ascom handsets, and any extensions on the PBX that shall be dialed from Ascom handsets.

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Long Name	<input type="text" value="To_AA60"/>	Display Name	<input type="text"/>
Name	<input type="text" value="To_AA60"/>	Number	<input type="text" value="6"/> Critical <input type="checkbox"/>
Password	<input type="text"/>	retype Password	<input type="text"/>
Hardware ID	<input type="text"/>		
Node	<input type="text" value="root"/>	Hide from LDAP	<input type="checkbox"/>
PBX	<input type="text"/>	Local	<input type="checkbox"/>
Config Template	<input type="text"/>		
- Config			
Filter	<input type="text" value="normal"/>	Diversion Filter	<input type="text" value="normal"/> Reject ext. Calls <input type="checkbox"/>
Response Timeout	<input type="text"/>	Busy On ... Calls	<input type="text"/>
No Inband Disconnect	<input type="checkbox"/>		
- Gateway			
Enblock Count	<input type="text"/>		
Enblock as Diverting No	<input type="checkbox"/>		
Prefix	<input type="checkbox"/>		
International Match	<input type="text"/>		
National Match	<input type="text"/>		
Subscriber Match	<input type="text"/>		
OK Apply Delete Cancel			

2. Connect to the T1 VoIP Gateway configuration GUI with a compatible web browser.
  - a. Navigate to the *Gateway* tab and click on *SIP* tab.
3. Define a SIP interface with the following parameters:
  - a. Name = "To\_AA60"
  - b. ID = "6000" (or whatever extension defined above in the AA60)
  - c. @ = IP Address of AA60
  - d. Proxy = IP Address of AA60
  - e. Username = "6000" (or whatever extension defined above in the AA60)
  - f. General Coder Preference = "G711u"
  - g. Local Coder Preference = "G711u"
  - h. Internal Registration – Protocol = "SIP"
  - i. Server Address = "127.0.0.1"
  - j. ID = "To\_AA60"
  - k. @ = "127.0.0.1"
  - l. Username = "To\_AA60"

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Name	To_AA60	
Disable	<input type="checkbox"/>	
ID	6001	@ 172.20.106.106
Proxy	172.20.106.106	
STUN Server		
Authorization		
Username	6001	
Password		Retype
Media Properties		
General Coder Preference	G711u	Framesize [ms] 20 Silence Compression <input type="checkbox"/> Exclusive <input checked="" type="checkbox"/>
Local Network Coder	G711u	Framesize [ms] 20 Silence Compression <input type="checkbox"/>
Enable T.38	<input type="checkbox"/>	Enable SRTP <input type="checkbox"/> Media-Relay <input checked="" type="checkbox"/> No DTMF Detection <input type="checkbox"/> Enable PCM <input type="checkbox"/>
SIP Interop Tweaks		
Proposed Registration Interval [s]		
Accept INVITE's from Anywhere	<input type="checkbox"/>	
Enforce Sending Complete	<input type="checkbox"/> (affects outgoing SIP calls only)	
From Header when Sending INVITE	Fixed AOR	
Disables overlap dialing for outgoing calls	<input type="checkbox"/>	
Identity Header when Sending INVITE	CGPN in user part of URI	
Reliability of Provisional Responses	Supported (affects outgoing SIP calls only)	
Internal Registration		
Protocol	SIP	
Server Address	127.0.0.1	(primary)
Server Address		(secondary)
ID	To_AA60	@ 127.0.0.1
Username	To_AA60	
Password		Retype

4. Navigate to the *Gateway* tab and select *Routes*. Delete the route from the AA60 to the T1 VoIP Gateway (SIP1 to RS1). The only SIP1 route shall be RS1 to SIP1.

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### CABLING REQUIREMENTS

Please see XGate – Installation and Operation Manual TD 92338GB for cabling instructions

### RELATED DOCUMENTS

TD 92232GB	Installation Guide ELLISE2
TD 92338GB	Installation and Operation Manual XGate
TD 92364GB	User Manual Administration, XGate
TD 92329GB	Programming Guide, Event Handler

### Additional Information

If you have any questions or need additional information, please contact Ascom Technical Assistance Center at 1-877-71-ASCOM, option 3.

# Application Note



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## Appendix A

### Rauland Pager Configuration Setup

Enter all settings as shown in the screenshot below.

#### Pager configuration:

Com Port:  NOTE: Enter 0 to close the Com Port

Baud:  Stop Bits:  Parity:  Data Bits:

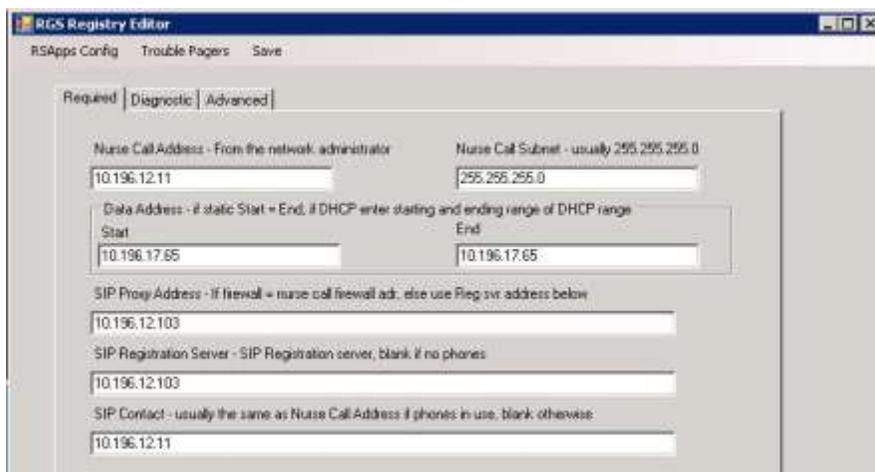
Mode:  RTS Use  CTS Use  Flow Control

Inactive limit:  Access Limit:

Internet port:  NOTE: you must reboot if you update the Internet port for the change to take effect

Trace:  Recognize ID=

The AA60's IP address needs to be set in the SIP Proxy Address and SIP Registration Server fields in the RGS server. This field can be found in: *C:\Program Files\Rauland-Borg\R5RGS\RGSregedit.exe*



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## Appendix B

The default Medamax Gateway configuration has the following events:

### Event Assignment

Event	Description
Nursecall - Normal	Normal Priority Message with Callback to room is an option.
High Message Trigger	High Priority Message with no Callback to room as an option
Low Message Trigger	Low Priority Message with Callback to room is an option.
Medium Message Trigger	Medium Priority Message with Callback to room is an option.
Tagged Text Interactive Message	A tagged plain text message with Callback to room as an opti...
Plain Text Message	A non tagged plain text message (non interactive)

Normal Priority – Message event is triggered by a message which includes any of the following words:

- Staff, Duty, Patient, Cord Out, Bed Out, Water, Patient OT, Attention, Go To Toilet, Bath Assist, In Pain, Attention OT 1, Urgent, Bath Assist O, Urgent OT 1, Bath Assist OT

High Priority – Message event is triggered by a message which includes any of the following words:

- Vent Alarm, Staff Assist, Staff Assist OT, Rapid Response, Code Blue

Medium Priority – Message event is triggered by a message which includes any of the following words:

- NA Rnd OT, Rn Rnd OT, Plug Out, Supervision Failure, Bath, Bath Emerg, Bath OT 1, Bath Emerg OT, Aux Alarm, Bed Alarm

Low Priority – Message event is triggered by a message which includes any of the following words:

# Application Note



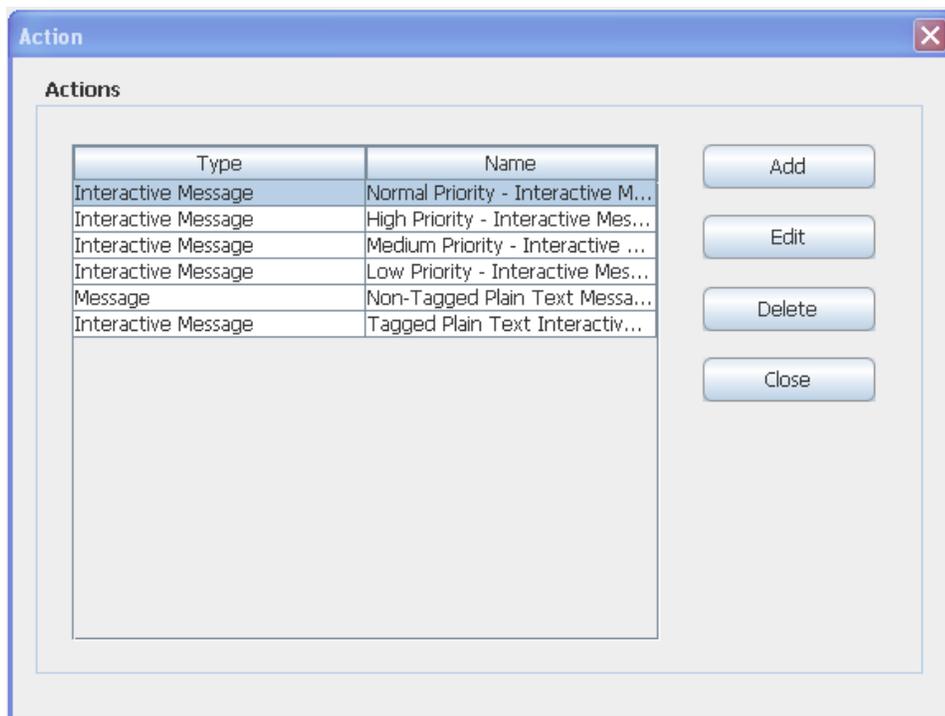
Product: Ascom AA60 Voice Appliance, UNITE with Rauland Responder 5  
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- NA Rounds, RN Rounds, Transport, Cleaning Needed, Cleaning In Progress, Bed Ready, Patient Transport OT, Cleaning Needed OT

Tagged Text – Message event is triggered by a message which includes a Tag (Area) (Room) (Bed) and is not a Normal, High, Medium, or Low priority message.

Plain Text – Message event is triggered by any non tagged message

The default configuration has the following actions:



Normal Priority – Interactive Message will result in an Interactive message of priority normal, being displayed on the screen of the destination handset, with two options “Talk” and “Close”. Selecting the "Talk" key will result in a call to <Area>\*<Room Number>\*<Bed>

High Priority – Interactive Message event will result in an Interactive message of priority alarm, being displayed on the screen of the destination handset, with one option “Close”.

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Medium Priority – Interactive Message will result in an Interactive message of priority high, being displayed on the screen of the destination handset, with two options “Talk” and “Close”. Selecting the "Talk" key will result in a call to <Area>\*<Room Number>\*<Bed>

Low Priority - Message event will result in an Interactive message of priority low, being displayed on the screen of the destination handset, with two options “Talk” and “Close”. Selecting the "Talk" key will result in a call to <Area>\*<Room Number>\*<Bed>

Non-Tagged Plain Text Message event will result in a Message of priority normal, being displayed on the screen of the destination handset

Tagged Plain Text Interactive Message event will result in a Message of priority normal, being displayed on the screen of the destination handset, with two options “Talk” and “Close”. Selecting the "Talk" key will result in a call to <Area>\*<Room Number>\*<Bed>