

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Rauland-Borg Responder[®] 5 to Interoperate with Avaya Aura[®] SIP Enablement Services and Avaya Aura[®] Communication Manager R5.2.1 – Issue 1.1

Abstract

These Application Notes describe a compliance-tested configuration consisting of the Rauland-Borg Responder[®] 5 solution, Avaya Aura[®] SIP Enablement Services and Avaya Aura[®] Communication Manager R5.2.1.

The Rauland-Borg Responder[®] 5 solution is a complete nurse call system with associated Staff Management applications, ensuring calls for assistance from patient rooms are immediately routed to the proper staff for response.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe a compliance-tested configuration consisting of the Rauland-Borg Responder[®] 5 solution, Avaya Aura[®] SIP Enablement Services and Avaya Aura[®] Communication Manager R5.2.1.

The Responder solution is a complete nurse call system with associated Staff Management applications, ensuring calls for assistance from patient rooms are immediately routed to the proper staff for response. It should be noted that the solution involves the use of a third party Brekeke SIP Server, which is a standard element of any solution involving SIP PBX integrations.

Calls from a patient room could be initiated by a patient (pain, assistance needed, etc.), or hospital staff (room cleaning, linens, etc.) with the push of a button. Staff using Avaya phones can be incorporated into the system so that calls to talk to a nurse would route through SIP Enablement Services to Communication Manager, and to be able to call the patient room in return. This adds the benefit of staff having access to other resources in the hospital using Avaya endpoints.

Hospital staff members who are responsible for direct communication with patient rooms generally roam using wireless phones. The Compliance Test used a variety of wireless devices, including 3600 series SIP and IP wireless sets, Avaya oneX[®] Mobile SIP for Apple iOS devices (iPhone and iPad), and Avaya Desktop Video Devices (A175) as well as several stationary desksets.

The solution was tested in parallel with Avaya Aura[®] Session Manager and Avaya Aura[®] Communication Manager R6.0.1. Application Notes covering the Session Manager Interoperability Test are published separately under the title *Application Notes for Configuring Rauland-Borg Responder*[®] 5 to Interoperate with Avaya Aura[®] Session Manager and Avaya Aura[®] Communication Manager R6.0.1.

2. General Test Approach and Test Results

The compliance test focused on the ability for Rauland Responder[®] 5 endpoints to initiate and receive calls to and from SIP Enablement Services and Communication Manager.

2.1. Interoperability Compliance Testing

The compliance test validated the ability of Responder to route calls to and from patient rooms to Avaya endpoints. Additionally, testing validated the ability for the Responder solution to recover from common outages such as network outages and server reboots.

Responder endpoints are designed for purpose with limited functionality. Responder endpoints are not designed for multi-line functions like Hold, Conference and Transfer. These functions were successfully carried out on Avaya devices registered to SIP Enablement Services and Communication Manager while connected to calls with Responder endpoints.

2.2. Test Results

The objectives described in **Section 2.1** were verified.

Two observations were made in the course of this testing.

One-way audio was observed in certain conditions:

- The Responder Branch Regional Controller media processing unit (BRC) sends audio (RTP) on a different port than it listens on (asymmetric). For example, if a session is established with the Session Description Protocol (SDP) indicating the Responder BRC will be listening on port 5004 for RTP packets, it will send the RTP to the Avaya Media Gateway from a different port (50957 for example).
- The Avaya G450 Media Gateway, and TN2602 (Crossfire) Media Resource boards implement security in the Digital Signal Processing (DSP) firmware which blocks audio sent asymmetrically. Note that TN2302 Media Processing boards do not implement this security and thus no conflicts were observed when using this board for media processing.
- Since NAT or Firewall implementations expect RTP to be sent and received on the same port (5004 in the above example), packets sent from the BRC are not passed through to other endpoints. This could impact not only the Avaya Media Resources, but also any intervening NAT or Firewall traversal devices between the two solutions.

Two workarounds were tested to resolve this conflict.

- VoIP DSP firmware on the G450 Media Gateway, and TN2602 IP Media Resource boards was modified. This is not recommended for two reasons:
 - The VoIP firmware settings are used for security reasons, thus alternative network security would need to be implemented to block denial of service type attacks on the boards.
 - The settings are not well publicized due to the security implications, thus implementations relying on this workaround method could be delayed.

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- The second workaround involved using the Brekeke SIP Server as a Media Relay.
 - Using this method, all calls connected through the Brekeke server rather than directly between the Responder BRC and the Avaya Media Gateways.
 - The impact of this workaround is that additional processing power is used to accommodate the media processing.
 - Rauland engineers should be consulted to ensure adequate hardware resources are planned based on expected call traffic.

The second observation is that the Responder Branch Regional Controller (BRC) media processing unit does not support media shuffling.

- Attempts by the Avaya Media Gateway, or Media Resource/Processing boards to offer direct connections between IP endpoints and the BRC failed.
 - The impact of this was that additional DSP resources were required on the Avaya Media Gateways and Media Resource/Processing boards to accommodate connections to Responder endpoints.
 - Avaya engineers should be consulted to ensure adequate VoIP resources are planned based on expected call traffic.

2.3. Support

Information, documentation and technical support for Rauland-Borg products can be obtained at:

- Phone: 1-847-590-7130
- Web: <u>http://www.rauland.com/</u>

3. Reference Configuration

Figure 1 illustrates the compliance test configuration consisting of:

- Avaya Aura[®] Communication Manager R5.2.1
- Avaya Aura[®] SIP Enablement Services R5.2.1
- Various IP, SIP and Digital endpoints. Note that most endpoints were wireless.
- Brekeke SIP Server
- Responder[®] 5 Branch Regional Controller
- Responder[®] 5 Communication Endpoints

Note that while the test configuration illustrates two Communication Manager platforms, these Application Notes focus on the Communication Manager R5.2.1 test which was performed in parallel with Communication Manager R6.0.1.

Calls routed to and from the Communication Manager 5.2.1 system used SIP trunks between the Brekeke SIP server and SIP Enablement Services, and in turn SIP trunks between SIP Enablement Services and Communication Manager. In parallel, calls destined to the other Communication Manager were routed through Session Manager and are described separately in [3].

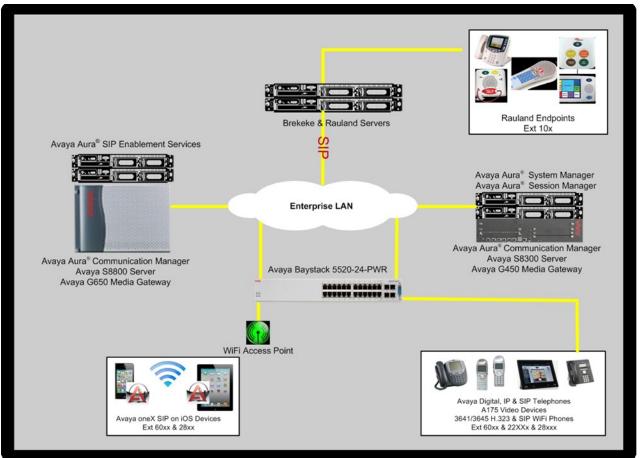


Figure 1 – Rauland-Borg Responder[®] 5Compliance Test Configuration

4. Equipment and Software Validated

The following equipment and version were used in the reference configuration described above:

Equipment	Version
Avaya S8800 Server and G650 Media	Avaya Aura [®] Communication Manager R5.2.1
Gateway	SP9
Avaya S8800 Server	Avaya Aura [®] SIP Enablement Services R5.2.1 SP4
Avaya Phones	
3641/3645 Wireless IP Phones	1.056 H.323 / 2.8.26.0 SIP
9600 Series IP Phones	Avaya oneX [®] Deskphone 3.110b IP/2.6.4 SIP
96x1 Series IP Phones	Avaya oneX [®] Deskphone 3.110b IP/2.6.4 SIP
Avaya A175 Desktop Video Device	A175-IPT-SIP-R1_1_0-122211
Apple iPad 2	Avaya oneX [®] Mobile SIP for iOS 1.0.1-9
Apple iPhone 4	Avaya onex Moone SIP for IOS 1.0.1-9
Responder 5 endpoints and media	R5
gateways	
Dell Laptop with Windows 2003 Server	Responder [®] 5 Applications
Windows 2008R2 Server	Brekeke SIP Server R2.4.7.3

Following are illustrations of Avaya endpoints used in the compliance test.



Avaya 3641 & 3645 WiFi SIP/IP Phones



Avaya oneX⁽⁰⁾ Mobile SIP on Apple iPhone and iPad2



Avaya 96x1 Series SIP/IP Phones



Avaya 9600 Series SIP/IP Phones



Avaya Desktop Video Device (A175)

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5. Configure Avaya Aura[®] Communication Manager

Configuration of Communication Manager required standard station administration which will not be covered in these Application Notes. In addition, routing was configured to enable calls originating from Communication Manager and SIP Enablement Services registered endpoints to be able to reach the Responder endpoints.

5.1. Configure Communication Manager Details

Calls were routed to Rauland endpoints using a 3 digit 5xx pattern. All calls routed via SIP trunk between Communication Manager and SIP Enablement Services using TCP transport. Existing SIP Trunks were in place in the environment, the steps below outline modifications made to accommodate the Responder solution. Therefore, some details required for SIP trunks may be omitted.

Administration for the solution required the following steps:

- Confirm Licensing
- Add node-names
- Add SIP Signaling Group
- Add SIP Trunk Group
- Change Route Pattern
- Change AAR Analysis
- Confirm IP codecs

Step

Description

Step	Description	
1.	Confirm Licensing Using the display system-parameters customer-options command system has capacity for additional SIP Trunks. If additional licenses contact an authorized Avaya Sales or Reseller representative.	r
	display system-parameters customer-options	Page 2 of 10
	OPTIONAL FEATURES	, in the second s
	IP PORT CAPACITIES Maximum Administered H.323 Trunks: 1000 Maximum Concurrently Registered IP Stations: 18000 Maximum Administered Remote Office Trunks: 0 Maximum Concurrently Registered IP eCons: 0 Maximum Concurrently Registered IP eCons: 0 Max Concur Registered Unauthenticated H.323 Stations: 0 Maximum Video Capable H.323 Stations: 100 Maximum Video Capable IP Softphones: 100 Maximum Administered SIP Trunks: 800 20 Maximum Administered Ad-hoc Video Conferencing Ports: 0 Maximum Number of DS1 Boards with Echo Cancellation: 0 Maximum TN2501 VAL Boards: 10 Maximum TN2602 Boards with 30 VOIP Channels: 128 Maximum TN2602 Boards with 320 VOIP Channels: 128 Maximum TN2602 Boards with 320 VOIP Channels: 128 Maximum Number of DS1 Boards with 320 VOIP Channels: 128	USED 0 3 0 0 0 0 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0
2.	Maximum Number of Expanded Meet-me Conference Ports: 0 Add node-names Communication Manager uses the node-names ip table as a host lool names used in subsequent steps will refer to these. Using the change command, entries were added for SIP Enablement Services (SES) an address (CLAN). change node-names ip	kup table. Host e node-names ip
	IP NODE NAMES	1030 101 1

Step	Description
3.	Add SIP Signaling Group
	A signaling group was added using the add signaling group 202 command with the
	following settings (settings not highlighted are default):
	Group Type: <i>sip</i>
	Transport Method: <i>tcp</i>
	Near-endNode Name: CLAN
	Far-end Node Name: <i>SES</i>
	Near-endListen Port:5060
	Far-endListen Port:5060
	Far-end Domain: blank (enable all domains).
	Direct IP-IP Audio Connections: n. (Responder does not support media shuffling).
	add signaling-group 202 Page 1 of 1
	add signaling-group 202Page 1 of 1 SIGNALING GROUP
	Group Number: 202 Group Type: sip Transport Method: tcp
	IMS Enabled? n
	Near-end Node Name: CLAN Far-end Node Name: SES
	Near-end Node Name: CLAN Far-end Node Name: SES Near-end Listen Port: 5060 Far-end Listen Port: 5060
	Far-end Network Region: 1
	Far-end Domain:
	Bypass If IP Threshold Exceeded? n
	Incoming Dialog Loopbacks: eliminate RFC 3389 Comfort Noise? n
	DTMF over IP: rtp-payload Direct IP-IP Audio Connections? n Session Establishment Timer(min): 3 IP Audio Hairpinning? n
	Enable Layer 3 Test? n Direct IP-IP Early Media? n
	H.323 Station Outgoing Direct Media? n Alternate Route Timer(sec): 6

)	Description
	Add SIP Trunk Group Using the add trunk-group 202 command, trunk group 202 was created with the following settings (settings not highlighted are default):
	Group Type: <i>sip</i> Group Name: <i>to SES/Rauland</i> TAC: <i>117</i> Direction: <i>two-way</i> Service Type: <i>tie</i> Signaling Group: <i>202</i> Number of Members: <i>10</i> Numbering Format: <i>public</i>
	add trunk-group 202 Page 1 of 21 TRUNK GROUP
	Group Number: 202 Group Type: sip CDR Reports: n Group Name: to SES/Rauland COR: 1 TN: 1 TAC: 117 Direction: two-way Outgoing Display? y Dial Access? n Night Service: Queue Length: 0 Service Type: tieAuth Code? n
	Signaling Group: 202 Number of Members: 10
	change trunk-group 202 Page 3 of 21 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y
	Numbering Format: public UUI Treatment: service-provider
	Replace Restricted Numbers? n Replace Unavailable Numbers? n

Description	
 endpoints using the change route-pattern 202 command with the following set (settings not highlighted are default): Pattern Name: <i>Rauland</i> Grp No: 202 (This specifies the Trunk Group to use) 	ettings
Of Restriction, 0 is least restrictive). change route-pattern 202 Page 1 of 3 Pattern Number: 202 Pattern Name: Rauland SCCAN? n Secure SIP? n	
Grp FRL NPA Pfx Hop Toll No. Inserted DCS/ No MrkLmt List Del Digits QSIG DgtsIntw 1: 202 0 2: 3: 4: 5: 6:	IXC n user n user n user n user n user n user
	-
Change AAR Analysis Using the change aar analysis 0 command, dialed strings of 3 digits beginning were instructed to use the <i>Route Pattern 202</i> configured in the previous step.	g with a 5
AAR DIGIT ANALYSIS TABLE	1 of 2
	Change Route Pattern Route Pattern 202 was configured to use Trunk Group 202 for calls to Respondendpoints using the change route-pattern 202 command with the following set (settings not highlighted are default): Pattern Name: Rauland Grp No: 202 (This specifies the Trunk Group to use) FRL: 0 (This can be used as a security setting to restrict access to trunks based Of Restriction, 0 is least restrictive). change route-pattern 202 Page 1 of 3 Pattern Number: 202 Pattern Name: Rauland SCCAN? n Secure SIP? n Crp FRL NPA Pfx Hop Toll No. Inserted DCS/ No MrkLmt List Del Digits QSIG OgtsIntw 1: 202 0 2: 3: 4: 5: 6: DCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM No. Number 0 1 2 M 4 W Request Subaddress 1: y yyyy n n 1: y yyyy n n rest 3: y yyyyn n rest 3: y yyyyn n rest 3: y yyyyn n rest 5: y yyyyn n rest 6: y yyyyn n rest 6: y yyyyn n rest 7: y yyyyn n rest 6: y yyyyn n rest 7: y yyyn n rest

Step			Des	cription				
7.	Confirm IP codecs							
	Use the change ip-codec-set n command to add or modify RTP codecs. In the test environment, codec set 1 was used for all endpoints and trunks. G.711MU was used for all calls with responder endpoints, the Responder BRC does not support G.729. As the media gateway was required to be connected to all calls, the gateways were able to transcode RTP enabling different codecs to be used for each leg of the call.							
	change ip-codec	e-set 1				Page	1 of	2
		IP	Codec Set					
	Codec Set:	1						
	Audio Codec	Silence Suppression		Size(ms)				
	1: G.711MU	n	2	20				
	2: G.729	n	2	20				

6. Configure Avaya Aura[®] SIP Enablement Services

SIP Enablement Services is administered via web interface. In a browser, navigate to **https//:<hostname>/admin** and login with appropriate credentials. Use the hostname or IP Address of the SIP Enablement Services server in the URL.

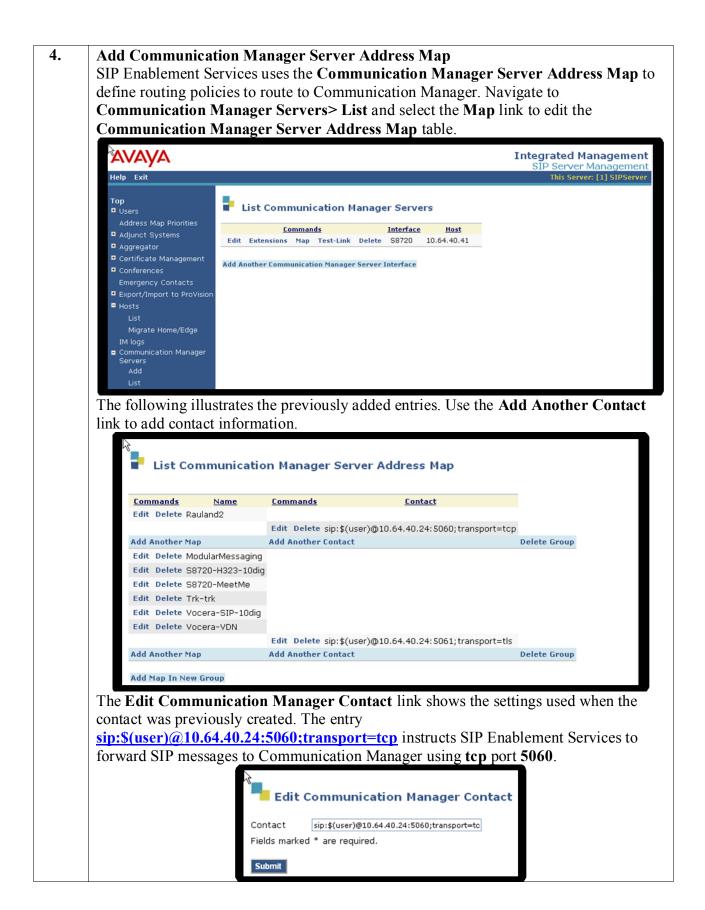
All navigation is performed by clicking links in the navigation panel on the left side of the screen.

AN 7AN 7A		
AVAYA		Integrated Manager SIP Server Manage
Help Exit		This Server: [1] SIPS
Top ■ Users	📕 Edit Comm	unication Manager Server Interface
Add Default Profile Delete	Communication Manager Server Interface Name*	\$8720
Edit	Host	10.64.40.41
List	SIP Trunk	
Password	SIP Trunk Link Type	⊙ TCP O TLS
Search Manage All Registered Users	SIP Trunk IP Address	* 10.64.40.24
Search Registered Devices	Communicatio	
Search Registered	Manager Serve	r
Users Address Map Priorities	Communication Manager Server Admi	D
Adjunct Systems	Address*	10.64.40.19
Aggregator	(see Help) Communication	
Certificate Management	Manager Server Admi	n 5022
Conferences	Port*	
Emergency Contacts	Communication Manager Server Admi	n interop
Export/Import to ProVisio	ר Login [≆]	
Hosts	Communication Manager Server Admi	n ••••••
List	Password*	
Migrate Home/Edge	Communication	
IM logs Communication Manager	Manager Server Admi Password Confirm*	n [••••••
Servers	SMS Connection	Occu Otelest Otel Ausiehle
Add	Туре	⊙SSH ○Telnet ○Not Available
List		Note: If the Communication Manager Server connection type is changed and the admin p value is not also changed, changing connection type to SSH will change the admin port to
 Communication Manager Extensions 		when Add or Update is clicked and changing connection type to SSH will change the admin port to when Add or Update is clicked and changing connection type to Telnet will change admin
Add		to 5023 when Add or Update is clicked.
List	Fields marked * are r	equired.
Search	Update	

2.	illustration below s IP Address of 192	ed Hosts > Add to add a showing the settings for t 2.168.27.199 was the Bred	new entry for the Brekeke SIP Server. In the he previously configured Trusted Host, the keke SIP Server, and the Perform d. Click Update to commit the changes.
	Help Exit Top Users Add Default Profile Delete Edit List Password Search Manage All Registered Users Search Registered Devices Search Registered Users Address Map Priorities Address Map Priorities Adgregator Conferences Emergency Contacts Export/Import to ProVision Hosts IM logs Communication Manager Server Configuration SIP Phone Settings Survivable Call Processors System Status Trace Logger Trace Logger Trusted Hosts Add	Edit Trusted Host IP Address*: Perform Origination Processing: Fields marked * are required. Update	Integrated Management SIP Server Management This Server: [1] SIPServer

SID Enghlamont Car	Мар
SIP Enablement Ser	rvices uses the Host Address Map to define routing policies to rou
	avigate to Hosts > List and select the Map link to edit the Host
Address Map table	
AVAYA	Integrated Management SIP Server Management
Help Exit	This Server: [1] SIPServer
Top Users Address Map Priorities Adjunct Systems Aggregator Certificate Management Conferences Emergency Contacts Export/Import to ProVision Hosts List Migrate Home/Edge	List Hosts Showing 1 to 1 of 1 Hosts Commands Host Type SES Version Edit Map Go-To Test-Link Delete 10.64.40.41 SES combined home-edge SES-5.2.1.0-016.4 Migrate Home/Edge N N N N N N
	trates the previously added entries. Use the Add Another Contact
link to add contact in	1 2
📕 List Host /	Address Map
Host 10.64.	.40.41
10.04	
	Name Commands Contact
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Edit Delete Raulan	nd_out Edit Delete sip:\$(user)@192.168.27.199:5060;transport=udp
Edit Delete Raulan Add Another Map	
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Add Host Address Ma	p (continued)				
specify dialed number p shown below were adde	From the List Host Address Map screen shown above, click Add Another Map link to specify dialed number patterns which will use this routing policy. The two patterns shown below were added to instruct SIP Enablement Services to use this policy for 2 digit number 29, and three digit 5xx extensions on the Responder system.				
Host	Map Entry	Sedit F	lost Map Entry		
Name* Raular	d_2	Name*	Rauland_out		
Pattern* ^sip:2	9	Pattern*	^sip:5[0-9]{2}		
Replace URI 💟		Replace URI			
Fields marked * are	required.	Fields marked	* are required.		
Update		Update			



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5.	Add Host Address Map (continued)
	From the List Communication Manager Server Address Map screen shown above, click the Add Another Map link to specify dialed number patterns which will use this routing policy. The pattern shown below was added to instruct SIP Enablement Services to use this policy for 5 digit numbers 2xxxx on Communication Manager.
	Edit Communication Manager Map Entry
	Name* Rauland2 Pattern* ^sip:2[0-9]{4}
	Fields marked * are required.
	Update

7. Configure Responder[®] 5

The Responder solution is typically implemented by Rauland engineers or their resale partners. When integrated with a third party SIP PBX, it is always deployed with a Brekeke SIP server which serves two purposes. First, Brekeke SIP server is commonly deployed with a variety of SIP capable PBX solutions giving the Responder equipment a common and predictable SIP interface that is adaptable to many environments. Second, the Brekeke SIP Server is capable of providing registrar services without requiring provisioning for each Responder endpoint, thus significantly reducing the implementation and ongoing administration of the solution.

The Responder equipment will be provisioned completely by Rauland engineers based on site requirements, and will be configured to use the Brekeke SIP server for all calls destined to endpoints outside of the Responder endpoints.

The focus of this section will be on administration of the Responder applications, and configuration of the Brekeke SIP Server to properly route SIP calls and RTP.

7.1. Responder 5Configuration Details

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Step	Description							
3.	User Login and Device Assignment At the beginning of a shift, or return to duty from breaks, users will scan their Hospital ID badge bar code with a scanner connected to the PC which will automatically log them in to the My Profile screen. From this screen, a Wireless Phone and/or Pager number can be entered, duty status							
	updated, and break status entered. The My Assignments and My Preferences tabs are available for staff to review the patient rooms they are assigned to and modify user preferences. The details of these tasks are beyond the scope of these Application Notes. Click Update or Update and Exit to commit the changes.							
l	Wy Status My Assignments My Preferences							
	User User Universe can be reader for other your winters Proce 6010 Close ON Close							
	RGS: (Active) 100 PM 2011Alov-07 3 Start > Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø							

tep		De	scription							
	Assign Staff to Patient Rooms									
	8									
	This task is typically performed by shift supervisors. Staff can be assigned to patient									
	rooms on the Staff Assignment screen which is accessed from the drop down menu at									
	the upper left of the Responder 5 Applications. In the illustration below, GA (Gertrud									
	Andrag) is assigned to room									
	<i>.</i> ,	•	-							
	then clicking on the assignment									
	initials (GA in this case) wi	ll appear as bel	low when the sta	aff member has been						
	successfully assigned to a p									
	Responder 5 Applications				- (6)					
	Staff Assignment		rsula Sauerborn							
			sula Sauerbom							
	Current Assignments Reject Accept Add Notes Future Assignm			11/07/2011 5 East 💌	a?•					
	Staff: 5 East Search	Beds X Clear All		Select all beds	3					
	LPN Andrag, Gertrud ID 10043	501-1	513-1	525-1						
	Call Serv OUrgt	Andrews, Roy GA	T Ward, Ann	T Pekelaar, Andre						
	Phone 6010	502-1 Lloyd, Abby	514-1 Tiffin, Sarah	526-1 Butcher, Alan	+					
			Tillin, Saran	Butcher, Alar						
	1	503-1 Sparg, Liz	515-1 Ceglowski, Renata	527-1 Hancock, G	÷					
	On Duty Off Duty									
	Close ®	504-1 Haper, W	Cleaver, Gail	528-1 Hewitt, M	÷					
	RN Behr, Karina	505-1	517-1	529-1						
	Alde Bryden, J	Kirkham, Kechil	Voget, Caroline	Brink, Bernard	+					
	LPN Cox, Fran	506-1	518-1	530-1						
	Nur Deering, Peter	Seier, Jurgen	Tilbury, Anne	Poznanovich, Cher	+					
	Uni Payton, J	507-1	519-1	\$ 531-1						
	Nur Sauerborn, Ursula	Meats, Rhian	T Ming, Chris	T Sievers, Elmarie	T					
	LPN Woods, Christine	508-1	520-1	532-1						
		I-Ons, Lesley	T Liu, Bob	T Farrow, Herb						
	all Aide	509-1 Segall, Jack	521-1 Dell, Ken	533-1 Winstain, Rufus	+					
	all Bed Control	oogan, oauk	Doll, Koll	Thiston, Nults						
	all EVS	510-1 Shand, Mike	f 522-1 Coulson, Jeri	534-1 Stoddar, Bridget	¥					
	all EVS Supervisor All staff on duty displayed	All beds displayed		- construction						
	RGS: (Active) 100 PM 2011-Nov-									

Configura Brakaka S	Descrip IP Server SIP Properti				
The following SIP sett	ings were pre-configure	d for the test env	ironmen	t.	
All administration is p	erformed via web brows	er by navigating	to the he	ostnam	e or I
Address of the Brekek	e server.				
brekeke					
SIP Server	•		ESTART/	SERVER	LOG O
JII JUITE			SHUTDOWN	STATUS	2000
Dial Plan User Authentication Reg	istered Clients Active Sessions Call Logs	Configuration Maintenance	e		
System SIP RTP Database	Radius Domains Mirroring Hearth	eat Advanced			
Configuration > SIP					
SIP exchanger					
Session Limit (-1=unlimited)	-1				
Local Port	5060				
B2B-UA mode NAT traversal	on 👻				
Keep address/port mapping	off 💌				
Interval (ms)	12000				
Add 'rport' parameter (Send)	on 💌				
Add 'rport' parameter (Receive)	on 🛩				
Authentication REGISTER	off 🗸				
INVITE	off 💙				
Realm (ex: domain name)					
Auth-user=user in "To:" (Register)	no 🔽				
Auth-user=user in "From:"	no 🛩				
FQDN only	no 💌				
Nonce Expires (seconds)	60				
Upper Registration On/Off	off 💌				
Register Server					
Protocol					
Thru Registration					
On/Off	on 🌱				
Timeout (0=unlimited) Ringing Timeout (ms)	240000				
Talking Timeout (ms)	259200000	=			
Upper/Thru Timeout(ms)	30000				
Miscellaneous					
100 Trying	any requests				
Server/User-Agent		*Advanced Edition Only			
TCP TCP-handling	on 🕙 *TCP inactive in Personal/Academic I	ditions			
Queue Size	50	and the second second			
UDP Failover	off 💌				
Performance Optimization (Proxy))				
Initial threads Maximum Sessions per thread		*Advanced Edition Only			
Maximum Sessions per thread Performance Optimization		*Advanced Edition Only			
(Registrar)					
Initial threads		*Advanced Edition Only			
Maximum Sessions per thread		*Advanced Edition Only			
	Save Your changes will be in effect after	restart.			

Step		Description					
6.	Configure RTP Relay settings The tested configuration required that all media (RTP) send to and from Rauland endpoints be connected through the Brekeke SIP Server. This was required in order overcome an incompatibility between Rauland and Avaya media servers as describ Section 2. On the Configuration>RTP screen, set RTP Relay to <i>on</i> , RTP relay (UA on this machine) to <i>auto</i> , Port mapping to <i>source port</i> and click Save to complete entries Note, the Minimum and Maximum Port range settings should be sufficient to har the maximum number of concurrent RTP sessions between systems. Det Ren Use Authentication Registered Cents Active Sessors Collogy Configuration Menterore						
	System SIP PEIP Databa Configuration > RTP RTP exchanger RTP relay RTP relay (UA on this machine) Minimum Port Maximum Port Minimum Port(Video) Maximum Port(Video) Port mapping Timeout (0=unlimited) RTP Session Timeout (ms)	Image: see,Radius Domains Mirroring Heartbeat Advanced 0					

			Descrip	uon			
	0		outing rules				
Several Dial Plan rules were used as illustrated below. For calls routing to SIP							
Enablement Services, Avaya SES and Avaya SES 28 rules were used. The other ru							
			e	r system covered in the a	lternate		
Apŗ	dication	Notes previ	ously mentioned.				
	0		gistered Clients Active Sessions Call Logs	Configuration Maintenance	H		
	View R es	New Rule Import	Rules Export Rules View Alias Nev	/ Alias Import Alias Export Alias			
	Hide Disab	> View Rules bled Rules					
	Priority	Name	Matching Patterns	Deploy Patterns			
	1 A	waya CM6_650	\$request=^INVITE To=sip:(20.+)@	<pre>\$transport=tcp To=sip:%1@10.64.21.31</pre>	ወው።		
	2 A	waya SES 28	\$request=^INVITE To=sip:(28.+)@	\$transport=tcp To=sip:%1@10.64.40.41	ወው።		
	З А	waya SES	\$request=^INVITE To=sip:(22.+)@	\$transport=tcp To=sip:%1@10.64.40.41			
	4 A	waya CM6	\$request=^INVITE To=sip:(60.+)@	\$transport=tcp To=sip:%1@10.64.21.31	0 0 0 1 1 1 1		
	5 T(o_WSM	\$request=^INVITE To=sip:(847.+)@	\$transport=tcp To=sip:%1@192.168.27.20			
	7 10	o_Outside_ThruWSM	\$request=^INVITE To=sip:(91.+)@	\$transport=tcp To=sip:%1@192.168.27.20	0 B X		
	9 Ci	isco CM	\$request=^INVITE To=sip:(534.+)@	To=sip:%1@10.1.2.100	Ø₿%		
I							
Pat to S	terns . In SIP Enabl	re identical the screens lement Servi	hot below, calls to nun ices at 10.64.40.41 . Fo	or the Matching Pattern ober patters starting with r the system covered in t	28 were ro hese application		
Patt to S note	rules we terns. In SIP Enables, the pa	re identical the screens lement Serv atterns 22 an	hot below, calls to nun ices at 10.64.40.41 . Fo id 28 were defined and	ber patters starting with r the system covered in t routed to SIP Enablement	28 were rothese application		
Patt to S note	rules we terns. In SIP Enables, the pa	re identical the screens lement Serv atterns 22 an	hot below, calls to nun ices at 10.64.40.41 . Fo	ber patters starting with r the system covered in t routed to SIP Enablement	28 were rothese application		
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8. Verification Steps

Calls were placed to and from Responder endpoints, and two-way audio was confirmed. The nature of these devices is simple, one-way communications with Hospital staff, complex calls like transfer and conference are not supported on the patient room devices, but Avaya endpoints were tested to confirm conference and transfer functionality.

On the Brekeke SIP Server, the **Registered Clients>View Clients** screen will confirm if Responder endpoints are successfully registered as shown below.

Dial Pla			guration Maintenance Held						
	View Clients New Client Refree								
	Registered Clients > View Clients								
Un	register	Registered: 206	Pages : 1 <u>2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21</u>						
	User	Contact URI	Detail						
	5*501	sip:5*501@192.168.27.125:5064	Expires : 3600 Priority : 1000 User Agent : Requester : 132.169.27.125:5064 Time Updike : Wed Nov 05 20:28:46 CST 2011						
	5*501*1	sip:5*501*1@192.168.27.125:5064	Expires : 3600 Priority : 1000 User Agent : Requester : 132.169.27.125:5064 Time Update : Wed Nov 05 20:28:46 CST 2011						
	5*501*101	sip:5*501*101@192.168.27.125:5064	Expires : 3600 Priority : 1000 Usar Agent : Requester : 132.169.27.125:5064 Time Update : Wed Nov 05 20:28:46 CST 2011						
	5*501*102	sip:5*501*102@192.168.27.125:5064	Expires : 3600 Priority : 1000 User Agent : Requester : 132.169.27.125:5064 Time Update : Wed Nov 05 201.28:46 CST 2011						
	5*502	sip:5*502@192.168.27.125:5064	Expires : 3600 Priority : 1000 User Agent : Requester : 132.169.27.125:5064 Time Update : Wed Nov 05 20:28:46 CST 2011						
	5*502*1	sip:5*502*1@192.168.27.125:5064	Expires : 3600 Priority : 1000 User Agent : Requester : 192.168.27.125:5064 Time Update : Wed Nov 09 20:28:46 CST 2011						

9. Conclusion

These Application Notes describe the procedures required to configure Rauland-Borg Responder[®] 5 to interoperate with endpoints registered to Avaya Aura[®] SIP Enablement Services and Avaya Aura[®] Communication Manager using a Brekeke SIP Server as a SIP registrar and Proxy for the Responder 5 side of the solution.

Caution is advised to pay particular attention to the observations noted in **Section 2** above when planning to implement this solution.

10. Additional References

Product documentation for Avaya products may be found at http://support.avaya.com.

Avaya

- [1] *Administering Avaya Aura™ Communication Manager*, Doc # 03-300509, Release 5.2, Issue 5.0, May 2009.
- [2] Installing, Administering, Maintaining, and Troubleshooting Avaya Aura® SIP Enablement Services, Doc # 03-600768, January 2011
- [3] Application Notes for Configuring Rauland-Borg Responder[®] 5 to Interoperate with Avaya Aura[®] Session Manager and Avaya Aura[®] Communication Manager R6.0.1.

Rauland-Borg

Product information for Rauland-Borg products can be found at http://www.rauland.com/.

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