

Avaya Solution & Interoperability Test Lab

Application Notes for configuring novalink novaalert V10 with Avaya IP Office R10.1 - Issue 1.0

Abstract

These Application Notes describe the configuration steps for novaalert from novalink with Avaya IP Office R10.1. novaalert integrates with Avaya IP Office using SIP trunks.

Readers should pay attention to Section 2, in particular the scope of testing as outlined in Section 2.1 as well as the observations noted in Section 2.2, to ensure that their own use cases are adequately covered by this scope and results.

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 the configuration steps for novaalert from novalink to interoperate with Avaya IP Office R10.1. The Avaya IP Office consists of a primary server which is the Avaya IP Office Server Edition and the Server Edition Expansion that being the Avaya IP Office IP500 V2. novaalert integrates with Avaya IP Office using SIP trunks connecting to the primary server.

novaalert is an application which is used in a health care, hotel or industrial environment for alerting, messaging or information services. novaalert can react to external alarm stimuli which indicate the existence of an emergency situation by informing affected persons of the situation. Alarms can be triggered from various possible input sources including manual input via Web browser, Smartphone Apps, Databases, E-Mails, serial interfaces, potential free contacts, SNMP, OPC, SMS, IP, etc. "Direct" alarms can also be defined which allow alarms to be input and triggered via telephone calls. The alarm triggering described is restricted to those methods which involve interaction with Avaya IP Office.

Once an alarm has been triggered, the medium selected when the alarm was configured is used to deliver the alarm. Possible delivery interfaces include phone calls (including conferences), Smartphone App's, Desktop-Clients, E-Mail, Pager, SMS, Fax, Printers, etc. Multiple recipients can be configured for an alarm, thus possibly creating multiple simultaneous telephone calls. This test plan focuses on those delivery methods which involve interaction with Avaya IP Office.

Alarms which are triggered via Avaya IP Office can include pre-recorded or ad hoc voice messages, or can generate voice messages via a text-to-speech mechanism. The calling party name can also be configured to contain a brief alarm message, so that this alarm message will appear in the caller list of intended recipients who are unable to answer an alarm call.

2. General Test Approach and Test Results

This section describes the compliance testing used to verify interoperability of novaalert with IP Office and covers the general test approach and the test results. Alarms were initiated from novaalert and sent to IP Office phone sets and hunt groups over SIP trunks. IP Office Server Edition with a Server Edition Expansion (IP500 V2) was used for compliance testing. Various Avaya endpoints were registered to the Server Edition and the IP500V2, see **Section 4**, using all endpoints during compliance testing. The SIP trunk was connected between the Server Edition and novaalert with a dial-plan setup with that in mind.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and novaalert did not include use of any specific encryption features as requested by novalink.

2.1 Interoperability Compliance Testing

The interoperability compliance testing evaluated the ability of novaalert to carry out a variety of alarming functions, in various conditions, to multiple types of endpoint according to the configuration made via the web interface. These included recording of alarms from SIP/H.323/Digital endpoints.

- Delivery of voice recorded and TTS alarm to SIP/H.323/Digital endpoints.
- Delivery of voice recorded and TTS alarm to Hunt Groups.
- Verification of Alarm Display messages on each handset.
- Delivery of Alarms to the phone set speaker directly using Dial Paging.
- Following Call Forwarding to deliver alarms.
- DTMF PIN entry.
- Intrusion of Alarms to busy extensions using the Call Intrusion Short Code.
- Serviceability testing.

Serviceability testing consisted of verifying the ability of novaalert to recover from simulated network interruption to both IP Office and novaalert.

2.2 Test Results

All functionality and serviceability test cases were completed successfully. The following issues and observations were noted during the compliance testing.

- 1. 'Special Characters' such as ö,ü,ä, did not show up on the phone set display.
- 2. 'Local User Name' did not show up on the phone set display. Shown is the calling Party number e.g. 911 (to be defined in novaalert).
- 3. A Short Code for FNE was added in order to initiate the Call Intrusion Short Code; this was done because using the Call Intrusion Short Code directly by novaalert results in a forbidden so it must use the FNE for Mobile Call Control.
- 4. DTMF will only work using SIP INFO. See Section 6.1 to view this specific setup.

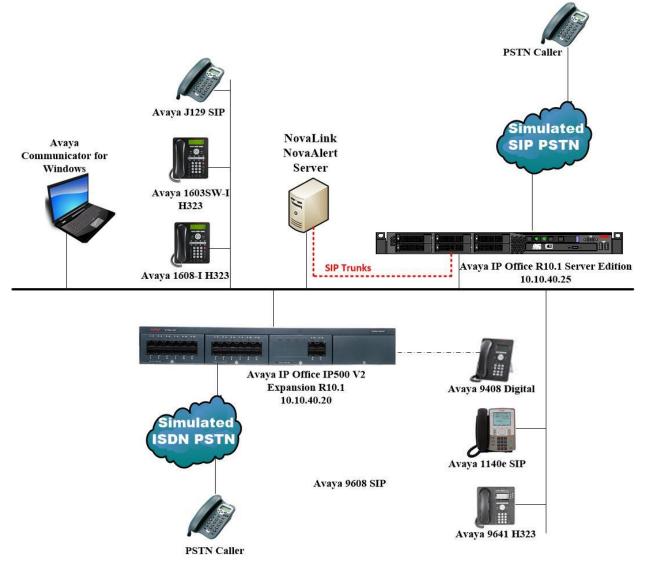
2.3 Support

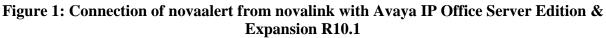
Technical support can be obtained for novaalert from the website <u>http://www.novalink.ch/en/</u> or from the following.

novalink GmbH Businesstower Zuercherstrasse 310 8500 Frauenfeld Switzerland helpdesk@novalink.ch Phone: +41 52 762 66 77 Fax: +41 52 762 66 99

3. Reference Configuration

The configuration in **Figure 1** is used to compliance test novalink novaalert with Avaya IP Office Server Edition and Avaya IP Office IP500 V2. The connection between the novaalert and the IP Office solution uses SIP trunks.





4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment/Software	Release/Version
Avaya IP Office Primary Server Server Edition running on a Virtual Platform	R10.1.0.1.0 Build 3
Avaya IP Office Expansion Server IP500 V2	R10.1.0.1.0 Build 3
Avaya IP Office Manager running on a Windows 7 PC	R10.1.0.1.0 Build 3
Avaya 1608-I H323 Deskphone	1608UA1_350B.bin
Avaya 1603SW-I H323 Deskphone	1603UA1_3110A.bin
Avaya 9641 H323 Deskphone	R6.6115
Avaya 1140e SIP Deskphone	R04.04.28.00
Avaya 9508 Digital Deskphone	R0.60
Avaya Communicator for Windows (SIP)	R2.1.8.80 (SIP)
Avaya J129 SIP Deskphone	R1.0.0.0.43
novalink novaalert running on a Windows 2012 virtual server	10.0.1.4

Compliance Testing is applicable when the tested solution is deployed with a standalone IP Office 500 V2 and also when deployed with IP Office Server Edition in all configurations.

Testing was performed with IP Office Server Edition R10.1. Note that IP Office Server Edition requires an Expansion IP Office IP500 V2 R10.1 to support analog or digital endpoints.

5. Configuration of Avaya IP Office

Configuration and verification operations on the Avaya IP Office illustrated in this section were all performed using Avaya IP Office Manager. The information provided in this section describes the configuration of the Avaya IP Office for this solution. It is implied a working system is already in place. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 9**. The configuration operations described in this section can be summarized as follows:

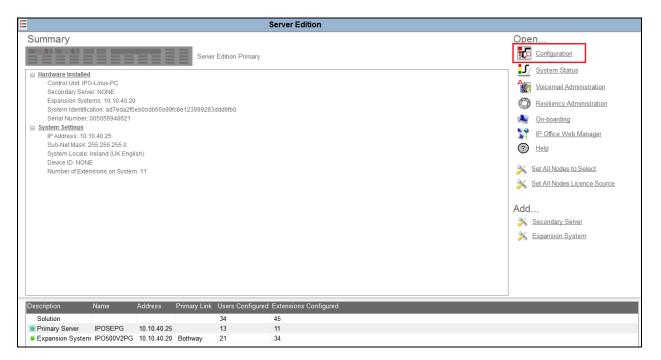
- Launch Avaya IP Office Manager.
- Display LAN Configuration.
- Configure Incoming Route for SIP Trunk.
- Configure SIP Trunk.
- Configure User for Mobile Call Control.
- Configure Short Codes.
- Save Configuration.

5.1 Launch Avaya IP Office Manager

From the Avaya IP Office Manager PC, go to **Start** \rightarrow **Programs** \rightarrow **IP Office** \rightarrow **Manager** to launch the Manager application (not shown). Tick the required server to log in to, this should be the **Primary Server** (**Server Edition**) and log in to Avaya IP Office using the appropriate credentials to receive its configuration.

摿 Select IP Office					
Name	IP Address	Туре	Version Edition		
Server Edition 10.1					
IPOSEPG		IPO-Linux-PC	10.1.0.1.0 build 3 Server	Primary)	
Server Edition Exp					
IPO500V2PG	10.10.40.20	IP 500 V2	10.1.0.1.0 build 3 Server	Expansion)	
			Configuration Serv	e User Login	
			IP Office :	IPOSEPG (Primary System - IPO-Linux-PC)	
			Service User Nar	e Administrator	
			Service User Pas	vord	
				OK Cancel Help	
L					
TCP Discovery Progre	ss				
Unit/Broadcast Addre	ee	V	Open with Server Edition	anager	
10.10.40.255		fresh			OK Cancel

Click on **Configuration**, highlighted below.



5.2 Display LAN Configuration

In the IP Office window expand the configuration tree in the left pane and double-click **System** (this may have a different name depending on the site). Select the **LAN Settings** tab within the **LAN1** tab and note the IP Address of the IP Office that will be required in **Section 6.1** for the configuration of the SIP Trunk on novaalert.

Configuration	System	
& BOOTP (5) Solution User(34) W Ser(34) W Short Code(8) W Short Code(9) W Short Code(9) W Ser Rights(9) W Sort Code(9) W Sort Code(10) W Sort Code	Name	System LAN1 LAN2 DNS Voicemail Telephony Directory Services System Events SMDR VolP VolP Contact Center LAN Settings VolP Network Topology Image: Contact Center Image: Contact Center LAN Settings VolP Network Topology Image: Contact Center Image: Contact Center IP Address 10 .10 .40 .25 Image: Contact Center Image: Contact Center IP Mask .255 .255 .255 .0 Image: Contact Center Image: Contact Center Number Of DHCP IP Addresses .200 DHCP Mode Server Client Disabled Advanced

Click on the **VoIP** tab and ensure that the following are set correctly.

- 1. SIP Trunks Enable.
- 2. SIP Registrar Enable.
- 3. **Domain Name**, set this to the telephony domain name.
- 4. **UDP** set the UDP Port to **5060**.
- 5. **TCP** set the TCP Port to **5060**.

Note: novaalert uses UDP to connect to IP Office.

8	IPOSEPG	iii - II × I < I >
System LAN1 LAN2 DNS	Voicemail Telephony Directory Services System Events SMTP SMDR VoIP VoIP Security C	ontact Center
LAN Settings VoIP Network	Topology	
H323 Gatekeeper Enable —		·
Auto-create Extn	Auto-create User H323 Remote Extn Enable	
H.323 Signalling over TLS	Disabled → Remote Call Signalling Port 1720	
SIP Trunks Enable		
SIP Registrar Enable		
Auto-create Extn/User	SIP Remote Extn Enable	
SIP Domain Name	devconnect.local	
SIP Registrar FQDN		E
	UDP UDP Port 5060 Remote UDP Port 5060	
Layer 4 Protocol		
	✓ TLS TLS Port 5061	
Challenge Expiry Time (secs)		
RTP		
- Port Number Range		
Minimum	40750 🚖 Maximum 50750 🛬	
– Port Number Range (NAT) –		
Minimum	40750 👘 Maximum 50750 👘	
Enable RTCP Monitoring or	n Port 5005	
RTCP collector IP address for pl	nones 0 , 0 , 0 , 0	
Keepalives		
Scope	RTP-RTCP Periodic timeout 30	
Initial keepalives	Enabled	

Click on the **Telephony** tab. Ensure that Telephony settings are correct for that particular setup. Below is just an example of what was used during compliance testing.

H	IPOSEPG				📸 - 🔤 🗙 🖌	< >
System LAN1 LAN2 DNS Voicemail Telephony Di	ectory Services System Events SM	TP SMDR	VoIP	VoIP Security	Contact Center	
Telephony Park & Page Tones & Music Ring Tones SM	Call Log TUI					
Dial Delay Time (secs) 8	Con	panding Law				Â
Dial Delay Count 2	- Sw	ch		Line		
Default No Answer Time (secs) 30	0	J-Law		O-Law Line	e	
Hold Timeout (secs)						
Park Timeout (secs)	۲	A-Law		A-Law Line	e	
Ring Delay (secs)		Status				
Call Priority Promotion Time (secs)		to Hold				
Default Currency EUR -		I By Name				
Default Name Priority Favour Trunk		w Account (Code			
Media Connection Preservation Enabled] 🔲 In	ibit Off-Swite	ch Forwar	rd/Transfer		≡
Phone Failback Automatic 🗸] Re	trict Network	Intercor	nect		
Login Code Complexity] Include loc	ation spe	cific information	n	
V Enforcement Minimum length	✓ Dr	p External O	nly Impro	mptu Conference	ce	
	Vi:	ually Differen	tiate Exte	rnal Call		
		Jh Quality Co	onferencir	ng		
RTCP Collector Configuration	🔽 Di	ectory Overri	des Barrir	ng		
Send RTCP to an RTCP Collector		vertise Callee	State To	Internal Callers		
Server Address 0 · 0 · 0		ernal Ring on	Transfer			
UDP Port Number 5005						
RTCP reporting interval (secs) 5	A V					

Click on the **VoIP** tab. Ensure that the correct codecs are selected. Again, below servers to show what was used during compliance testing.

			IPOSEPG					Ē	k - 🔤 🗙 🖌 < >
System LAN1 LAN2 DNS	Voicemail	Telephony	Directory Services	System Events	SMTP	SMDR	VoIP	VoIP Security	Contact Center
Ignore DTMF Mismatch For Phe	ones 🗸								
Allow Direct Media Within NAT	Location								
RFC2833 Default Payload Available Codecs G.711 ULAW 64K G.711 ALAW 64K G.722 64K G.729(a) 8K CS-ACELP	101 Default Unuser	Codec Select	▲ ion	Selected G.711 ALAW G.711 ULAW G.722 64K G.729(a) 8K 0	64K	p			

5.3 Configure Incoming Route for SIP Trunk

An incoming route must be added for the SIP trunk that will be setup in Section 5.4. Navigate to **Primary Server** \rightarrow **Incoming Call Route**. Right click on Incoming Call Route select New.

IPOSEPG		Incoming CLI
		Locale
		Locale
		Priority
🕬 Extension (11)		
指 User (14)		Tag
🕬 Short Code (61	New	Ctrl+N
Service (0)	INCVV	Cui+N
Incoming Call	Cut	Ctrl+X
Directory (0)	Сору	Ctrl+C
	Paste	Ctrl+V
Account Code 🗙	Delete	Ctrl+Del
🐂 Licence (36)	Validate	
📲 User Rights (9) 🗹	Validate	
	Show In Groups	
- 🥁 Location (0)		
Authorization (Customise Column	s
IPO500V2PG		

From the **Standard** tab, enter the **Line Group ID**; this can be kept the same as the SIP Line that is to be created for convenience. **Bearer Capability** can be set to **Any Voice.**

	21
Standard Voice Recording De	stinations
Bearer Capability	Any Voice 🗸
Line Group ID	21 🔹
Incoming Number	
Incoming Sub Address	
Incoming CLI	
Locale	•
Priority	1 - Low -
Tag	
Hold Music Source	System Source 🔹
Ring Tone Override	None

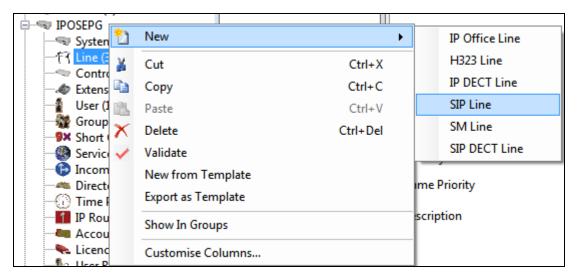
From the **Destinations** tab, select **.** for the **Destination**. Click on **OK** at the bottom of the screen (not shown).

	21	▲
andard Voice Recording Destinat	ons	
TimeProfile	Destination	Fallback Extension
Default Value		▼
	andard Voice Recording Destinati	andard Voice Recording Destinations TimeProfile Destination

5.4 Configure SIP Trunk

This section shows how to add a new SIP Trunk in order to facilitate the connection to novaalert. Navigate to the Server Edition or the IP Office module that novaalert is connecting to. During compliance testing novaalert connected to the IP Office Server Edition using SIP trunks, the SIP Line was therefore created on the Server Edition.

Navigate to **Primary Server** \rightarrow **Line**, then right click on **Line** and select **New** \rightarrow **SIP Line**.



Click the **SIP Line** tab and select the new **Line Number** and insert the IP Address of the novaalert server for the **ITSP Domain Name**.

***	SIP Line - Line 21		📸 🕶 🛛 🗙 🛛 🖌 🗠 🗧
SIP Line Transport SIP URI VoIP SIP C	Credentials SIP Advanced Engineering		
Line Number	21	In Service	
ITSP Domain Name	10.10.40.127	Check OOS	
Local Domain Name			
URI Type	SIP	Session Timers	
Location	Cloud	Refresh Method	Auto
		Timer (seconds)	On Demand 💂
Prefix			
National Prefix	0		
International Prefix	00		
Country Code		Redirect and Transfer	
Name Priority	System Default 👻	Incoming Supervised REFER	Always
Description		Outgoing Supervised REFER	Always
		Send 302 Moved Temporarily	
		Outgoing Blind REFER	

Click on the **Transport** tab and enter the IP Address of the novaalert server for **ITPS Proxy Address**. Ensure that the **Layer 4 Protocol** is set to **UDP** and that the **Send Port** and **Listen Port** are both set to **5060**.

	SIP L	Line - Line 2 [°]	1
SIP Line Transport SIP URI Vol	P SIP Credentials SIP Advance	ed Engineering	
ITSP Proxy Address 10.10.40.	127		
Network Configuration			
 Network Configuration 			
Layer 4 Protocol	UDP 👻	Send Port	5060
Use Network Topology Info	None •	Listen Port	5060
Explicit DNS Server(s) 0	· 0 · 0 · 0 0	. 0 . 0 .	0
Calls Route via Registrar 📃			
Separate Registrar			

Click on the **SIP URI** tab and click on **Add**.

XXX	SIP Line - Line 21									
	SIP Line Transport SIP URI VoIP SIP Credentials SIP Advanced Engineering									
	Channel	Groups	Via	Local URI	Contact	Display Name	PAI	Credential	Max Calls	Add
										Remove
										Edit

The following should be set as shown below; anything else can be left as default or as it is displayed in the screen shot below. Click on **OK** to continue.

Local URI	Set to Auto
Contact	Set to Auto
Display Name	Set to Auto
Identity	Set to None
Incoming Group	Set to the incoming group number for the SIP trunk (21 as per
	Section 5.3)
Outgoing Group	Set to the outgoing group number for the SIP trunk (21 as per
	Section 5.3)
Max Calls per Channel	Will depend on the number of SIP Licenses on IP Office and
	novaalert

×××	SIP Line - Line 21 ➡ ■ × ✓ < >								< >					
SIF	Line	Transpo	rt SIP URI	VoIP SIF	Credentials SIP	Advance	d Engine	ering						
	URI				Display Name	Identity		Originator Number	Send Caller ID			A	dd	-
	1	21 21	Auto	Auto	Auto	None	PAI		None	None	0: <non< td=""><td>Rei</td><td>move</td><td></td></non<>	Rei	move	
												E	dit	-1
	- Edit	URI	_									ОК		
	Loc	al URI	A	uto					•			Cance	1	Ξ
	Con	tact	A	uto					•					
	Disp	olay Nam	e A	uto					•					
		ntity	_											
		ntity		one				•						
	He	ader	Ρ	Asserted II)			•						
		-	And Twinn	ing										
		iginator mber												
	Ser	nd Caller	Id N	one				-						
		ersion Hei		one					•					
	_	istration		<none></none>					-					
		oming Gro			•									
	Out	going Gro	-		•									
	Max	Sessions	10)										-
										ОК		ancel	н	elp
														F

Select the **VoIP** tab and ensure that the correct **Codecs** are **Selected**. The **Re-invite Supported** and **Prack/100rel Supported** boxes are also ticked. **DTMF Support** must be set to **Info** in order to support the DTMF on novaalert which will be setup to use SIP INFO. Everything else can be left as default or as is shown below.

XX	SIP Line - Line 21	📸 🗕 🔛 🛛 🗙 🛛 🖌 🗠 🕹
SIP Line Transport SIP I	UR VolP SIP Credentials SIP Advanced Engineering System Default Codec Lockdown Allow Direct Media I G.711 ALAW 64K G.712 C4K G.722 64K G.729(a) 8K CS-ACELP PRACK/100rel Supported 	dia with phones
Fax Transport Support DTMF Support Media Security	Info Disabled	

Under the **SIP Advanced** Tab, ensure that **Caller ID from From header** and **Send From In Clear** are both ticked. Click on **OK** at bottom of screen (not shown) and that will complete the **SIP Line** setup.

×= ×=	SIP I	Line - Line 21		🚔 - 🔛 🛛 🗸	< :
SIP Line Transport SIP URI VoIP	SIP Credentials SIP Advanced Engin	eering			
Addressing Association Method	By Source IP address		Media Allow Empty INVITE		
Call Routing Method	Request URI	`	Send Empty re-INVITE Allow To Tag Change		
Suppress DNS SRV Lookups			P-Early-Media Support Send SilenceSupp=Off	None 🔻	
Identity	_		Force Early Direct Media		
Use "phone-context" Add user=phone			Media Connection Preservation	Disabled 🔹	
Use + for International Use PAI for Privacy			Indicate HOLD		
Use Domain for PAI			Call Control		
Swap From and PAI/Diversion Caller ID from From header			Call Initiation Timeout (s)	4	
Send From In Clear Cache Auth Credentials			Call Queuing Timeout (m) Service Busy Response	5 🚔 486 - Busy Here	•
User-Agent and Server Headers			on No User Responding Send		•
Send Location Info	Never		Action on CAC Location Limit	Reject Call	•
Add UUI header Add UUI header to redirected calls			Suppress Q.850 Reason Header		
Calls			Emulate NOTIFY for REFER No REFER if using Diversion		

5.5 Configure User for Mobile Call Control

A new user needs to be created on IP Office in order to use FNE - Mobile Call Control. The FNE Short Code is used by novaalert in order to initiate the Call Intrude and Coaching Intrusion Short Codes.

Navigate to **Primary Server** \rightarrow **Users** and right-click and select **New** as shown below.

	5152 5152							
System (1)	2 -5180 5180	Confirm Audio Conf						
一行 Line (3)	1 -5181 5181	Account Status						
Extensi	New	Ctrl+N						
User (14	New User Rights from user							
🐨 🎇 Group (🚽 Short C 🎽	Cut	Ctrl+X						
- 🛞 Service 🗈	Сору	Ctrl+C						
Directo	Paste	Ctrl+V						
— 🕕 Time P 🗡	Delete	Ctrl+Del						
1 IP Rout 🧹	Validate							
Accour	New from Template							
User Ri	Export as Template							
ARS (1)	Show In Groups							
Author IPO500V2P	Customise Columns							
	Apply User Rights to users							
	Copy User Rights values to users							

Under the User tab, enter a suitable Name, Password and Extension and ensure that Power User is selected as the Profile.

X		NovaA	lert: 5155				📥 - 🔛	X	 	>	Æ
User Voicemail DND Sho	rtCodes Source Numbers	Telephony	Forwarding	Dial In	Voice Recording	Button Programming	Menu Program	ming	Mobilit	y 1	•
Name	NovaAlert										-
Password	••••										
Confirm Password	••••										
Unique Identity											
Audio Conference PIN											
Confirm Audio Conference PIN											
Account Status	Enabled					•					
Full Name											
Extension	5155										
Email Address											
Locale						•					Ξ
Priority	5					-					
System Phone Rights	None				•	•					
Profile	Power User					•					
	Receptionist					_					
	Enable Softphone										
	Enable one-X Portal S	ervices									
	Enable one-X TeleCor										
	Enable Remote Worke	er									
	Enable Communicato	r									
	👿 Enable Mobile VoIP C	lient									
	Send Mobility Email										
	Web Collaboration										
	Exclude From Directo	Ŋ									
Device Type	All Other Phone Types					_					-

Under the **Telephony** tab and again under the **Supervisor Settings** tab ensure that **Can Intrude** is ticked as shown.

222	Ξ						lovaA	Alert: 5155							
	User	Voicemail	DND	ShortCodes Source Numbers Telephor					phony	Forwarding	Dial In	Voice Recording	Button Programming		
	Call Settings Supervisor Settings Multi-line Options Call Log TUI														
	Login Code ••••							E F	orce Logi	n					
	Confirm Login Code														
	Login Idle Period (secs)								Force Account Code						
	Moni	onitor Group <a>						•	- E	Force Authorization Code					
	Cove	rage Group		<none></none>					•	- Ir	Incoming Call Bar				
	Statu	s on No-Ans	wer	Logged	On (No	o change)			•	· • •	Outgoing Call Bar				
										📃 In	hibit Off	-Switch Forward/Tr	ransfer		
	Priva	cy Override (Group	<none></none>						• 🔽 C	an Intrud	e			
	CReset Longest Idle Time						Cannot be Intruded								
	A (0)	All Calls							Can Trace Calls						
	© E	xternal Incor	ming							Deny Auto Intercom Calls					

Under the **Mobility** tab tick the **Mobility Features** box and enter the number associated with novaalert, this is the number configured in **Section 6.1**. Ensure that all the tick boxes shown below are selected. Click on **OK** at the bottom of the screen to complete the setup (not shown).

×××	NovaAlert: 5155 🚔 - 🕑 × ✓ < >										>	43				
Use	er Voicemail	DND	ShortCodes	Source Numbers	Telephony	Forwarding	Dial In	Voice Recording	Button P	rogramming	Menu F	rogram	ming	Mobilit	y 1 4	•
	Internal Twinni	ng														
1	Twinned Handset		<non< td=""><td>e></td><td></td><td></td><td></td><td></td><td>Ŧ</td><td>]</td><td></td><td></td><td></td><td></td><td></td><td></td></non<>	e>					Ŧ]						
1	Maximum Numbe	er of Calls	1						Ŧ]						
	Twin Bridge Ap	pearance	25													
	Twin Coverage	Appeara	nces													
	Twin Line App	earances														
	Mobility Featur	es														
	Mobile Twinni	ng														
	Twinned Mob (including dia			3456789												
	Twinning Tim	e Profile	<none< td=""><td>e></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td></none<>	e>						•						
	Mobile Dial De	elay (secs) 0													
	Mobile Answe	r Guard (secs) 0													
	🔽 Hunt group	o calls elig	gible for mobi	le twinning												
	Forwarded	calls eligi	ible for mobile	e twinning												
	☑ Twin When Logged Out															
	🖉 one-X Mobile (Client														
	V Mobile Call Control															
	Mobile Callbac	k														

5.6 Configure Short Codes

Short Codes can be created for both systems, i.e., both the Primary Server and the Expansion Server. A short code such as Call Intrude or Coaching Intrusion would need to be created across all systems so navigate to **Solution** \rightarrow **Short Code**, right-click on **Short Code** and select **New** as shown.

Solution		9x < *566	Code
User (33)	<u>6</u>]	New	Ctrl+N
Short Code(48	1	Cut	Ctrl+X
Directory(0) Time Profile(0)		Сору	Ctrl+C
🗠 🚾 Account Code		Paste	Ctrl+V
User Rights(9)	×	Delete	Ctrl+Del
IPOSEPG	\checkmark	Validate	
蜀 System (1) 行了 Line (3)		Show In Groups	
Control Ur		Customise Columns	

5.6.1 Short Code for FNE Service

FNE – Mobile Call Control is used to allow a user called or calling the system to invoke mobile call control and to then handle and make calls as if they were at their system extension. FNE **31** is setup as a short code and this is done as shown below. ***566** is used to initiate the **FNE Service** and this will be configured on the novaalert system in **Section 6.1**.

	*566: FNE Service
Short Code	
Code	*566
	* This Short Code is common to all systems.
Feature	FNE Service 🔹
Telephone Number	31
Line Group ID	0
Locale	-
Force Account Code	
Force Authorization Code	

5.6.2 Short Code for Coaching Intrusion

Coaching Intrusion is used in order to break in on an existing call when the phone set is busy. ***567N;** was used for this Short Code where N is the number that was dialled. This same Short Code will be configured in **Section 6.1**.

Note: Each user must have "Cannot be intruded" unchecked under the telephony tab.

12	<short code:0="">: Barred*</short>
Short Code	
Code	*567N;
	* This Short Code is common to all systems.
Feature	Coaching Intrusion 🗸
Telephone Number	Ν
Line Group ID	0
Locale	
Force Account Code	
Force Authorization Code	

5.6.3 Short Code for Call Intrude

The same Short Code is illustrated here for Call Intrude. Note that the difference between Call Intrude and Coaching Intrusion is that Coaching Intrusion allows the Alarm to intrude on another user's call and play without being heard by the other call parties to which they can still talk. Call Intrude will play the Alarm to all users on the call.

Z	<short code:0="">: Barred*</short>
Short Code	
Code	*567N;
	* This Short Code is common to all systems.
Feature	Call Intrude
Telephone Number	Ν
Line Group ID	0 -
Locale	
Force Account Code	
Force Authorization Code	

5.6.4 Short Code for Dial Paging

Dial paging is used to play an alarm directly to the phoneset speaker. When novaalert uses this short code with the extension number, that alarm gets played out on the extension's speaker. ***568** was used as the Short Code for **Dial Paging**, seeing as 51xx is the extension range for the Primary Server the full Short Code is ***56851XX** and this was used to initiate the alarm to extensions 51xx.

	*56851XX: Dial Paging
Short Code	
Code	*56851XX
Feature	Dial Paging 🔹
Telephone Number	51N
Line Group ID	0 -
Locale	
Force Account Code	
Force Authorization Code	

5.7 Save Configuration

Once the configuration has been made it must be sent to the IP Office. Click on the **Save** Icon at the top left of the screen as shown below. Once the **Save Configuration** window opens, either the **Merge** or **Immediate** button will be filled in depending on the changes that are made. Click on the **OK** button.

🚺 🛛 Avaya IP Office Manager for Se	en/er	Edition I	OSEDG	[101010 build 3	1						
File Edit View Tools H			05210	(Louisland baild b							
Solution • Short C				* *567N:		10.0		1 🗈 🔝 🕕	· · · ·		
						· [: 4					
Configuration	sn	nort Co	ode	<u>E</u>				*56	7N;: Call Intru	de	
	I	Code	-	Short Code							
		< *567N;		Code		*567N:					
4 User (33)		< 5159		Code							
Group(6)	-	< *566 < *99						ommon to all syst	ems.		
Short Code (45)	-	< 199 < 516N		Feature		Call Int	rude				•
	-	< *66		Telephone Nu	mber	N					
Account Code(0)	-	< 8389		Line Group ID		0					•
User Rights(9)	9x <	< *07*N#									
	9x <	< *09		Locale							
System (1)	1	Send N	lultiple	Configurations							
一行了 Line (3) 一一句 Control Unit (11)										_	
← ≪ Extension (11)	1		Select	IP Office	Change Mode		RebootTime	Incoming Call Barring	Outgoing Call Barring	Error Status	Progress
User (13)				IPOSEPG	Merge	_	16:14				0%
Group (3)	1	l'		IPO500V2PG	Merge		16:14				0%
Service (0)				100000200	werge		10:14				078
Incoming Call Rou											
Directory (0) Time Profile (0)											
IP Route (1)											
Account Code (0)											
Licence (36)	1										
ARS (1)	1										
Location (0)	1										
Authorization Cod	1										
E IPO500V2PG	1										
System (1)	1										
	1	L									
Control Unit (4)										ОК	Cancel Help
User (24)	•										
Group (3)											

6. Configuration of novaalert

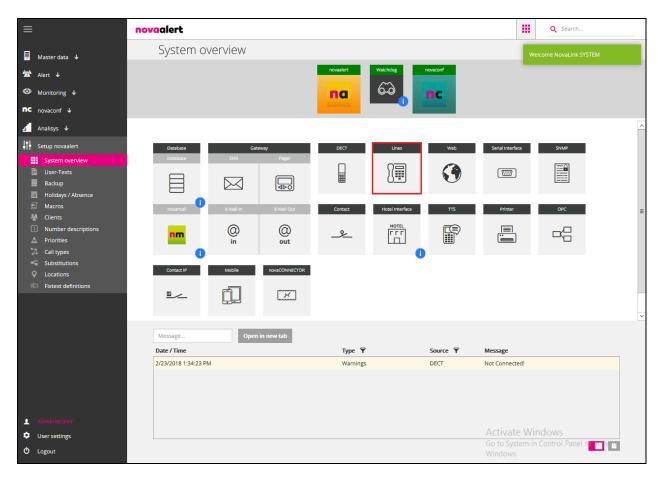
It is assumed that novaalert is already installed and configured by a novalink engineer. The following shows the steps that can be carried out in order to make changes or to examine a working system. The screen shots were taken after compliance testing was completed successfully and will show the configuration that was used for a successful integration to IP Office. This can be used as an example of a fully working system.

All configuration changes are made to novaalert using a web browser session to the novaalert server. Open a web browser session to the IP Address of the novaalert server followed by /novaalert, for example, for compliance testing https://localhost/novaalert was used. The following screen shown is asking for the User Name and Password, enter these and click on the Login button.

novaalert V	/ebClient © nova	llink Grr 🗙	novaalert WebClient © novalink Gr $ imes $	+	
∢→	C' û		🛈 🚯 https://localhost/novaal	ert/#/	80% 🖸 🏠
				Username:	
				Administrator	
				Password:	
				Login	

6.1 Connection setup to Avaya IP Office (SIP trunk connection)

Once logged in, the following screen is presented to the user. Click on the **Lines** icon, highlighted below. All configuration with regards to the SIP connection to IP Office is set in this area.



The first section shows the **Line Configuration**. This was the setup used for compliance testing; the most notable field is the Intrusion Code which is referenced in **Section 5.6**. The **Intrusion code** is entered using the FNE short code first followed by the Call Intrude/Coaching Intrusion short code and this looks like ***566**|***567**<**Nr>#**. This will call *****566 first then using the FNE Mobile Call Control Service using that *****567xxxx**#** is entered using DTMF.

System overview > Lines					
III Lines) C 💿 🔤	earch	
Line Configuration (Lines)					\odot
Static Direct Alarm	1001		(DirektAlarmNummer1)	+ •	8
Word Replacement Type	Words separated by "space" are replaced	•	(Ersetzungsart)	+ •	8
Timeout internal calls	30		(CallLängeIntern)	+ •	8
Timeout external calls	30		(CallLängeExtern)	+ •	8
Polling Interval	5		(intervall)	+ •	8
Intrusion code	*566 *567 <nr>#</nr>		(AufschaltCode)	+ •	8
Reserved Lines for Alarm Triggering	0		(NurAusloesen)	+ •	8
Line allocation 1	1		🌣 (Linie1)	+ -	8
Line allocation 2	2		🌣 (Linie2)	+ -	8
Line allocation 3	3		🌣 (Linie3)	+ •	8
Line allocation 4	4		🌣 (Linie4)	+ •	8
Min Connection Time	5		🌣 (MinAnhoeren)	+ •	8
Setup lines			Add entry		

Select **Voice over IP Configuration** which is the next section. The settings shown below are what were used during compliance testing. Most notable that being **Driver Preferences**, which should be set to **SIP** and the **SIP Gateway** which has the IP Address of the IP Office Primary Server as per **Section 5.1**.

System overview > Lines											
III Lines) C O Sea	arch]
Voice over IP Configuration (VoIP)								1	Ю	\odot	^
Driver Preferences	SIP			¥	·		(DriverPref)	+ •	۲		
Local User Name	AlertAlert						(LocalUserName)	+ •	۲		
H323 Gateway	IP		Vorwahl				(H323_Gateway)	+ •	۲		
	IP		Vorwahl		-						
					+						
H323 Use Fast Start	No			~	·		(H323_UseFastStart)	+ •	۲		
H323 Use H245 Tunneling	No			¥	·		(H323_UseH245Tunneling)	+ •	۲		
H323 Listener Configuration	*:1720						(H323_ListenerConfig)	+ •	۲		ŀ
H323 Use GateKeeper	No			¥	·		(H323_UseGateKeeper)	+ •	۲		
H323 GateKeeper Address							(H323_GateKeeperAddress)	+ -	۲		
H323 GateKeeper Zone							(H323_GateKeeperZone)	+ •	۲		=
H323 GateKeeper Password							(H323_GateKeeperPwd)	+ •	۲		
SIP Gateway	Realm	IP-Address	; Pre	fix	Local Inte	erface	(SIP_Gateway)	+ •	۲		
	10.10.40.25	10.10.40.	25 F	refix	Local In	iterface	-				
							+				
SIP Alias	Host	Alias	Username	Pass	word	Realm	(SIP_Alias)	+ -	۲		
	Host	Alias	Usernam	e Pas	ssword	1951]_				
							+				
SIP Listener Config	*:5060						(SIP_ListenerConfig)	+ •	۲		
Fax Transport Codec	T.30			¥	•		(FaxTransportCodec)	+ •	۲		
							Add entry				
Call Control (Callinfo)								ı	q	\odot	

Click on **Call Control**, which is the next section down. The following shows the configuration used for compliance testing. The **PBX Type** is set to **Avaya IPO** and the **Card Driver** set to **VoIP** (**H.323/SIP**). The **Default Calling Party** is entered and this much match exactly the Twinned Mobile Number configured for the FNE User in **Section 5.5**. **Signaling outgoing DTMF** is chosen as shown on the next page.

Lines				earch
Call Control (CallInfo)				1 4
РВХ Туре	Avaya IPO	~	(PBXType)	+ - 🛞
Card Driver	VoIP (H.323/SIP)	~	CardDriver)	+ • 🛞
Interface	VoIP	~	(Interface)	+ • 🛞
Dialed Number Identification	Use called party information	~	GewählteNummer)	+ • 🛞
Minimum Digits	0	1001	(MinDigits)	+ • 🛞
ntrusion Configuration	Recall with add. intrusion digits prior ca	ill no. 🗸	(AufschaltenAktiv)	+ • 🛞
Calling Party Configuration	Yes	~	CallingPartyAktiv)	+ • 🛞
Default Calling Party	0049123456789		(DefaultCallingParty)	+ • 🛞
Calling Name Identification	Yes	~	CNIPAktiv)	+ • 🛞
QSIG Standard	Disabled	~	QSIGStandard)	+ • 🛞
Call Retries	2	norm	CallVersuche)	+ - 🛞
Timeout Call List	8	norm	(RufZeitAnrufliste)	+ • 🛞
Signaling outgoing DTMF	As sound formatted information messa	age (H.245 sign 🔽	OutgoingDTMFMode)	+ • 🛞
ïLS mode	Disabled	~	(TLSmode)	+- 8
'LS Secure RTP	Both	~	(TLSsecureRTP)	+ - (8)
LS local certificate	No certificate	~	(TLSlocalCertificate)	+ - (8)

Signaling outgoing DTMF will determine what DTMF is used by novaalert when sending digits to IP Office. For compliance testing SIP Info was used and this must be set up on the SIP Line as shown in Section 5.4. The corresponding setting here is As sound formatted information message (H.245 signal or SIP INFO).

Signaling outgoing DTMF	As sound formatted information message (H.245 sign 🗸
	<no selection=""></no>
TLS mode	Default setting for the chosen protocol
	Q.931 Information Elements (H.323 only)
TLS Secure RTP	Simple string as information message (H.245 string or SIP INFO)
	As sound formatted information message (H.245 signal or SIP INFO)
TLS local certificate	According to RFC 2833 as RTP package
	In-Band DTMF tones

With this all set, click **Save** at the bottom right of the screen.

Lines		Search
card Driver	VUP (R.323/SIP)	
Interface	VoIP	¢ (Interface) + → ⊗
Dialed Number Identification	Use called party information	🗘 (GewählteNummer) 🛛 + 🗸 🛞
Minimum Digits	0	🌣 (MinDigits) + - 🛞
Intrusion Configuration	Recall with add. intrusion digits prior call no.	🗘 (AufschaltenAktiv) 🕹 😽
Calling Party Configuration	Yes	CallingPartyAktiv) + - 8
Default Calling Party	0049123456789	✿ (DefaultCallingParty) + - ⊗
Calling Name Identification	Yes	CNIPAktiv)
QSIG Standard	Disabled 🗸	🗘 (QSIGStandard) 🕹 😽
Call Retries	2	🗘 (CallVersuche) + - 😣
Timeout Call List	8	✿ (RufZeitAnrufiliste) + - ⊗
Signaling outgoing DTMF	As sound formatted information message (H.245 sign	✿ (OutgoingDTMFMode) + - ⊗
TLS mode	Disabled 🗸	
TLS Secure RTP	Both	¢ (TLSsecureRTP) + → ⊗
TLS local certificate	No certificate	✿ (TLSlocalCertificate) + - ⊗
		Add entry

Changes saved successfully should be displayed at the top right of the screen and **Close** can then be clicked at the bottom right.

stem overview > Lines		Changes saved	-succe:	sandiny:	
Ines) C 💿	Search			1
Line Configuration (Lines)				\odot	^
Fax Configuration (Fax)				\odot	
Radio Configuration (Radio)				\odot	
Voice over IP Configuration (VoIP)		1	q	\odot	
Call Control (Callinfo)		1	G	\odot	
	Activate	Windows	lose	Sav	re

Once the setup is saved click on the C "triangle icon" under the Lines icon and the following screen is popped asking to **Restart module**?, click on **Restart module**.

\equiv	novaalert							Q Search	
📕 Master data 🗸	System ove	Restart I	module?					E 🎤	(i) ~
🏠 Alert ↓		Do you want t	o restart the module	Lines?					
Monitoring ↓				Can	cel Restart modul	le l			
nc novaconf ↓									
Analisys 🗸									^
Setup novaalert	Database	Gate	way	DECT	Lines	Web	Serial Interface	ŚNMP	
System overview	Database		Pager					— 0	
User-Texts Backup	R				<u>}</u>				
Backup Backup Holidays / Absence						_			
Macros	novamail		E-Mail Out	Contact	Hotel Interface	TTS	Printer	OPC	=
Market Clients		-	-		HOTEL				_
Number descriptions Priorities	nm	@	0			F			
Call types		in	out						
Substitutions									
Q Locations	Contact IP	Mobile	novaCONNECTOR						
Fixtext definitions		A	لمشتمعا						
		Ļ							
									~

A message is displayed in the top right corner saying **Restarted module successfully**.

novaalert							<u> </u>	Q Search	
System o	verview						Res	started module succe	essfully!
			novaalert	672	novaconf				
									^
Database Database	Gate SMS	eway Pager	DEĊT	Lines	Web	Serial Interfa	ice	ŚNMP	
) 	۲				
novamail	E-Mail In	E-Mail Out	Contact	Hotel Interface	TT\$	Printer		ÓPĊ	=
nm	() in	O out	_&_						

6.2 Creating an Alarm for Avaya IP Office

An alarm can be created and sent to a single IP Office user or a group of IP Office users. This section outlines the steps required to create an alarm that is ready to be sent.

In order to send an alarm to IP Office, a user/extension will need to be added. This extension is then called by novaalert when the alarm is activated. From the main menu, navigate to **Master data** \rightarrow **User master data**. In the main window select **Add new** as shown below.

≡	nova	alert			1) ()	9		Q Searc	h			
Haster data	User	master data											Add	new
💄 User master data	Filter per	rson										. 7		
Group definition Alert definition	No.	Name 个	Personal no.	Client			Use	name						
Dn-Call-Duty lists	17	1140 5221		All							•	1	C)	8
Alert interfaces	12	16035W-I 5152		All							•	ı	Q	8
SNMP	11	161615151		All							•	ı	Q1	8
Directalerts	15	9508 5201		All							•	1	C)	8
Scheduled alerts IP inputs	16	9641 5250		All							•	1	Q)	8
IP inputs IP outputs	13	Communicator WIN 5122		All							•	1	Q	8
nfo phone	21	Hunt Group IP500 V2		All							•	ı	Q	8
Routes	22	Hunt Group IPO ALL		All							•	1	C)	8
Alert V	20	Hunt Group SE		All							•	1	Q)	8
M Alert ↓	23	Huntgroup Paging		All							•	1	Q1	8
Monitoring ↓	19	ISDN PSTN		All							•	ı	Q)	8
nc _{novaconf} ↓	14	J129 5123		All							•	1	C)	8
_	1	NovaLink SYSTEM		All			Adm	inistrato	or		•	1	Q)	8
a Analisys V	18	SIP PSTN		All							•	0	Q	8

Note: The following screens show the data for an existing user, these are used to demonstrate what is required when adding a new user. Click on the **Common** tab and enter a suitable **Name** and **PIN code**.

dit person 9641 5250 (16)	Add new
Common Numbers Authorization Mobile/Desktop/Touch	Allocation
Name:	Client:
9641 5250	All
PIN code:	Personal number:
1234	
Additional information:	Inactive:
Street:	Logged in:
	•
Zip / City:	No parallel alerts:
Language:	Notes:
English 🗸	

Click on the **Numbers** tab and enter the IP Office telephone number for this user and click on **Save Changes** at the bottom of the screen (not shown).

Common	Numbers	Authorization	Mobile/Deskto	p/Touch	Allocation		
Office 1:					Office 2:		
5250				~			~
Home 1:					Home 2:		
5250				~			~
Mobile 1:				-	Mobile 2:		
				~			~
Pager 1:				_	Pager 2:		
		Tone call	¥	~		Tone call	¥ ¥
SMS GSM 1:					SMS GSM 2:		
				~			~

The next step is to create the Alert Definition, navigate to **Alert definition** in the left window and click on **Add new** in the main window.

≡	novaa	lert	A 2	1, 1, 1,	Q Search
Master data	Alert	definition			Add new
Luser master data	þearch ale	ert			
🐴 Alert definition	No.	Description 1	PinCode	Client	
an-Call-Duty lists	29	Alaert to 5250 with DTMF PostDial	1234	All	/ fi 😣
Alert interfaces	22	Alarm to All Stations	1234	All	/ fi 😣
SNMP	18	Alarm to Digital 5201	1234	All	1 4 8
Directalerts	15	Alarm to H323 5151	1234	All	1 4 😣
Scheduled alerts	16	Alarm to H323 5152	1234	All	1 4 8
	13	Alarm to H323 5250	1234	All	1 4 8
Info phone	26	Alarm to Hunt Group IP500 V2	1234	All	/ 4 😣
Routes	27	Alarm to Hunt Group IPO ALL	1234	All	/ fi 😣
- Alert ↓	25	Alarm to Hunt Group SE	1234	All	/ fi 😣
û Alert ↓	21	Alarm to IP500 V2 Only	1234	All	1 G 😣
O Monitoring ↓	24	Alarm to ISDN PSTN	1234	All	1 6 😣
nc _{novaconf} ↓	20	Alarm to SE Only	1234	All	1 4 8

Again this example below shows an existing Alert but is used to demonstrate what needs to be configured for any Alert definition. Click on the **Common** tab and enter a suitable **Description**. The **Alert type** can be set depending on the type of Alert; this was set to **Group Call** for the example below. A **PIN code for trigger** also needs to be added.

dit aler	t Alarm	n to H323 5	250 (13)				Add	l new
Common	Messages	Alert-list	Alert interfaces	Escalation	Mobile/Desktop/Touch	Various		
Description	n:				PIN code for trigger:			
Alarm to	H323 5250				1234			
Priority:					Voice-No.:			
Highest	Priority			~	68			
Alert type:					Clientz			
Group C	all			~	All			¥
Number of	fattempts:				Notes:			
1				~				
Number of	f person to be c	ontacted:						
All				~				

Click on the **Messages** tab, a message can be delivered to the phone set display by opening the **Phone display** section and entering a suitable **Message** as shown below.

Common Messages	Alert-list	Alert interfaces	Escalation	Mobile/Desktop/Touch	Various	
Fill messages with ale	rt description					
Phone display						\odot
Message:						
This is an Alarm Me	essage					
Event text:						
No						~
Call type:						
Duration						~
Phone TTS						۲
Numeric pager						\odot
Alphanumeric pager						۲
SMS GSM						۲
WLAN/DECT paging						\odot

The list of users to be alerted by this alarm is entered under the **Alert-list** tab. In the example below one user **5250** (that created previously in this section) was added. However, a number of users can be added here depending on who should receive the alarm. The **Intr.** tick box was checked which would allow call intrusion for this user. If the user is busy then the alarm can intrude on the call and get played.

Commo	on Messages Alert-list	Alert interfaces	Escalation	Mobile/De	sktop/Touch	Various	
Add	lentry						
	Name	Medium / State	Conf.	Aknw.	Intr.	Logg.	Delay
↑↓	Name 9641 5250 (16)	Medium / State	Conf.	Aknw.	Intr.	Logg. ✓	Delay 0 🗸 🖉 🛞
↑↓			Conf.				

Under the **Escalation** tab an Escalation can be added in order to send the alarm to another user such as a manager or perhaps a secretary if the initial user fails to answer the alarm. This escalation must be configured first (not shown here) but can then be referenced under this Escalation tab.

Click on **Save** at the bottom right of the screen (not shown below) and this will save the Alert Definition. This concludes the setup of an alarm that will be sent to this IP Office user 5250.

iommo	n Messages Alert-list		scalation	Mobile/Desktop/Touch	Various			
Add	escalation							
	Condition	Pers. count	Add	Alert	Ori. text			
ΛΥ	Num. of persons <	1		Escalation (33)		I	ሪ	۲

7. Verification Steps

This section illustrates the steps necessary to verify that the novaalert is configured correctly to send an alarm to extensions on IP Office using SIP trunks.

7.1 Trigger an Alarm on novaalert

Log into novaalert as per Section 6. From the left menu navigate to Alert \rightarrow Trigger alert. From the main window click on the Alert to be triggered drop down box and select the Alert to be triggered. In the example below the alert was Alarm to H323 5250 which was created in Section 6.2.

≡	novaalert
Master data 🗸	Manual alert trigger
Alert	Trigger alert Text templates
 Trigger alert Cancel alert Acknowledge alert 	Person triggering alert: NovaLink SYSTEM
 Trigger macro Monitoring ↓ 	Alert to be triggered:
nc _{novaconf} ↓	<no selection=""></no>
ei Analisys ↓	Alarm to Digital 5201 (18)
♦IT Setup novaalert	Alarm to H323 5250 (13) □ Alarm to Hunt Group IP500 V/2 (26) □ Alarm to Hunt Group IP0 ALL (27) □
	Alarm to Hypol V2 Only (21)
	Alarm to ISDN PSTN (24) Alarm to SE Only (20) V Alert mesage:

Click on **Trigger alert** at the bottom right of the screen and a window opens asking to confirm the alarm trigger. Click on **Trigger alert** in that window.

Wanual alert tr Variang Togger aler Togger aler <th>novaalert</th> <th>ዿ 🤣 🗛 🛓 🔍 Search</th>	novaalert	ዿ 🤣 🗛 🛓 🔍 Search
Atarm ts H323 5250 (13) • Call type: • Plaintext: • Calling number: • Calling number: • Finance: • Option: • Sector: • Option: • Option: • Option: •	Manual alert tr Trigger alert Person triggering alert:	Warning You are about to trigger an altert. Do you wish to proceed? Cancel Trigger alert
Calitype: <pre> <pre> <pre> </pre> </pre> Caling number: </pre> Caling number: Caling number: Caling number:		
Apertantes Calling number: Abert message: Binname: Option		•
Calling number: Alert message: Finance: Manualder: O:000/0000		
Alert mestage: Filename _ManualAlert, 0000/0000	Plaintext:	
Filename_ManualAlert.	Calling number:	
	Filename: _1	

7.2 Verify SIP trunk messages

SIP messages can be viewed by opening the IP Office **SysMonitor** as shown below. This monitor displays all the SIP messages coming to and going from the IP Office. If there is an issue with the alarms not being sent then this is a way to try and troubleshoot what is happening.

```
👔 Avaya IP Office SysMonitor - Monitoring 10.10.40.25 (IPOSEPG (Server Edition(P))); Log Settings - C:\Users\...\sysmonitorsettings.ini
File Edit View Filters Status Help
 🗕 🖬 🗥 📓 🔳 🗶 🔢 👳 🎬 📼
                   Max-Forwards: 70
 246229960mS SIP Call Rx: 21
                   INVITE sip:5250@10.10.40.25 SIP/2.0
                   CSeq: 1 INVITE
                   Via: SIP/2.0/UDP 10.10.40.127:5060; branch=z9hG4bKf93f41ed-a517-1910-9f60-00505694bcb9; rport
                   User-Agent: NovaVoice/2.1.0.9
                   From: "Department Alarm" <sip:5555@10.10.40.127>;tag=f93f41ed-a517-1910-9f5d-00505694bcb9
                   Call-ID: f93f41ed-a517-1910-9f5e-00505694bcb9@NovaLinkWIN2012
                   Supported: x-siemens-sipgv2,100rel, replaces
                   Organization: NovaLink
                   To: <sip:5250@10.10.40.25>
                   Contact: "Department Alarm" <sip:5555@10.10.40.127>
                   Allow: INVITE, ACK, OPTIONS, BYE, CANCEL, SUBSCRIBE, NOTIFY, REFER, MESSAGE, INFO, PING, PRACK
                   Content-Length: 305
                   Content-Type: application/sdp
                   Max-Forwards: 70
                   v=0
                   o=- 1519644752 1 IN IP4 10.10.40.127
                   s=NovaVoice/2.1.0.9
                   c=IN IP4 10.10.40.127
                   t=0 0
                   m=audio 6012 RTP/AVP 0 8 101 100
                   a=sendrecv
                   a=rtpmap:0 PCMU/8000/1
                   a=rtpmap:8 PCMA/8000/1
                   a=rtpmap:101 telephone-event/8000
                   a=fmtp:101 0-16,32,36
                   a=rtpmap:100 NSE/8000
                   a=fmtp:100 192-193
                   a=maxptime:240
246229961mS SIP Call Tx: 21
                   SIP/2.0 100 Trying
                   Via: SIP/2.0/UDP 10.10.40.127:5060; branch=z9hG4bKf93f41ed-a517-1910-9f60-00505694bcb9; rport
                   From: "Department Alarm" <sip:5555@10.10.40.127>;tag=f93f41ed-a517-1910-9f5d-00505694bcb9
                   Call-ID: f93f41ed-a517-1910-9f5e-00505694bcb9@NovaLinkWIN2012
                   CSeq: 1 INVITE
                   Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, INFO, REFER, NOTIFY, UPDATE
                   Supported: timer,100rel
                   Server: IP Office 10.1.0.1.0 build 3
                   To: <sip:5250@10.10.40.25>;tag=b413404ebfee6333
                   Content-Length: 0
246229994mS SIP Call Tx: 21
                   SIP/2.0 180 Ringing
                   Via: SIP/2.0/UDP 10.10.40.127:5060; branch=z9hG4bKf93f41ed-a517-1910-9f60-00505694bcb9; rport
                   From: "Department Alarm" <sip:5555@10.10.40.127>;tag=f93f41ed-a517-1910-9f5d-00505694bcb9
                   Call-ID: f93f41ed-a517-1910-9f5e-00505694bcb9@NovaLinkWIN2012
                   CSeq: 1 INVITE
                   Contact: <sip:5250@10.10.40.25:5060;transport=udp>
                   Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, INFO, REFER, NOTIFY, UPDATE
                   Supported: timer, 100rel
                   Server: IP Office 10.1.0.1.0 build 3
                   To: <sip:5250@10.10.40.25>;tag=b413404ebfee6333
                   Content-Length: 0
```

8. Conclusion

These Application Notes describe the configuration steps required for novaalert from novalink to interoperate with Avaya IP Office R10.1. All feature functionality and serviceability test cases were completed successfully with any issues and observations noted in **Section 2.2**.

9. Additional References

This section references the Avaya and novalink product documentation that are relevant to these Application Notes.

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

[1] Avaya IP Office R10.1 Manager 10.1, Document Number 15-601011

[2] Avaya IP Office R10.1 Doc library

Technical support can be obtained for novaalert from the website <u>http://www.novalink.ch/en/</u> or from the following.

novalink GmbH Businesstower Zuercherstrasse 310 8500 Frauenfeld Switzerland helpdesk@novalink.ch Phone: +41 52 762 66 77 Fax: +41 52 762 66 99

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