



Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Aura® Communication Manager R6.3 with NovaLink NovaMail on NovaBox – Issue 1.0

Abstract

These Application Notes describe the configuration for connecting the NovaLink NovaMail on NovaBox voicemail system via an H.323 interface to Avaya Aura® Communication Manager.

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

The purpose of this document is to describe the configuration for connecting the NovaLink NovaMail on NovaBox voicemail system via an H.323 interface to Avaya Aura® Communication Manager, as well as the compliance tests which were performed, and a summary of the results of those tests.

2. General Test Approach and Test Results

NovaMail on NovaBox was manually configured using the web interface to receive, store, alert and playback voicemail messages.

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.

2.1. Interoperability Compliance Testing

The interoperability compliance testing evaluated the ability of NovaMail on NovaBox to carry out a variety voicemail functions in various conditions to multiple types of endpoint according to the configuration made via the web interface. These included:

- Forwarding to voicemail
- Leaving and retrieving voicemail to/from PSTN/SIP/H.323/Digital endpoints
- Message Waiting Indication (MWI)
- Use of DTMF for retrieval and menu navigation
- NovaMail on NovaBox outcalling to local and PSTN endpoints

Serviceability testing consisted of verifying the ability of NovaMail on NovaBox to recover from power on network interruption to both Communication Manager and NovaMail on NovaBox.

2.2. Test Results

All test cases were executed successfully.

2.3. Support

Technical support from NovaLink can be obtained through the following:

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

3. Reference Configuration

Figure 1 below shows the compliance tested configuration comprising of Communication Manager connected to NovaMail on NovaBox over an H.323 trunk and an assortment IP endpoints with a simulated PSTN connection.

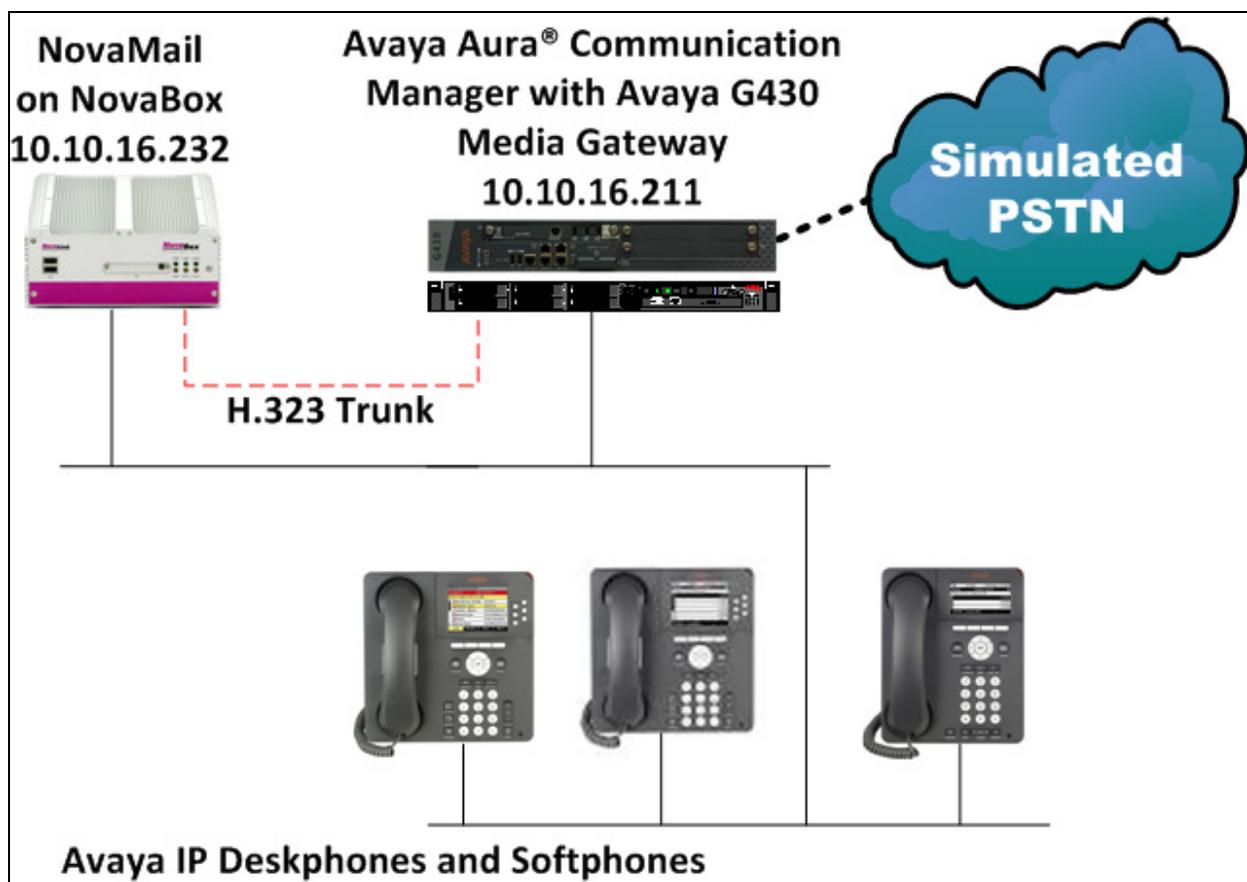


Figure 1: Avaya Aura® Communication Manager with NovaMail on NovaBox Solution

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager vAppliance	R6.3 SP0.1
Avaya G430 Media Gateway	33.13.0
Avaya 9630 IP Deskphone	<ul style="list-style-type: none">• H.323 3.2• SIP 2.6.10.1
NovaMail on NovaBox	9.8

5. Configure Avaya Aura® Communication Manager

The configuration of Communication Manager is from the System Access Terminal (SAT) and can be summarized as follows:

- Configure Node Names
- Configure H.323 Trunk
- Configure Signaling Group
- Configure Call Routing
- Configure Public-Unknown-Numbering Table
- Configure Coverage Paths
- Configure System Features

It is assumed that endpoints have been pre-configured as required, for more information see **Section 9**.

5.1. Configure Node Names

Node names must be configured with the IP address of NovaMail on NovaBox in order to configure the H.323 signaling group in **Section 5.5**. Enter the command **change node-names ip** enter an appropriate node name for NovaMail on NovaBox in the **Name** column and its corresponding **IP Address**. Note the **procr** IP address to be used when configuring the signaling group and NovaMail on NovaBox.

```
change node-names ip                                     Page 1 of 2
                                     IP NODE NAMES
Name                                IP Address
AES63RP                             10.10.16.210
CM62                                 10.10.16.142
IPO                                  10.10.16.105
NovaBox                            10.10.16.232
SM63RPSIG                           10.10.16.214
default                              0.0.0.0
procr                               10.10.16.211
procr6                               ::
```

5.2. Configure H.323 Trunk

An H.323 trunk must be administered between Communication Manager and NovaMail on NovaBox.

Enter the command **add trunk-group next** and configure as follows:

- **Group Number** – take a note of this to be used when configuring the signaling group and routing
- **Group Type** – set to **isdn**
- **Group Name** – enter an appropriate name
- **TAC** – enter a TAC appropriate to the dialplan
- **Carrier Medium** – set to **H.323**
- **Service Type** – set to **tie**
- **Member Assignment Method** – set to **auto**
- **Signaling Group** – enter the signaling group number configured later in this Section
- **Number of Members** – enter the number of channels required as appropriate

```
add trunk-group next                                     Page 1 of 21
                                     TRUNK GROUP
Group Number: 7                                         Group Type: isdn           CDR Reports: y
  Group Name: To NovaLink                               COR: 1                    TN: 1           TAC: 707
  Direction: two-way                                   Outgoing Display? n      Carrier Medium: H.323
  Dial Access? n                                       Busy Threshold: 255     Night Service:
Queue Length: 0
Service Type: tie                                       Auth Code? n
                                                         Member Assignment Method: auto
                                                         Signaling Group: 7
                                                         Number of Members: 4
```

On **Page 2** configure as follows:

- **Supplementary Service Protocol** – set to **b**
- **Disconnect Supervision Out?** –set to **y**

```
add trunk-group next Page 2 of 21
  Group Type: isdn

TRUNK PARAMETERS
  Codeset to Send Display: 6      Codeset to Send National IEs: 6
  Charge Advice: none
  Supplementary Service Protocol: b  Digit Handling (in/out): enbloc/enbloc

  Digital Loss Group: 18
Incoming Calling Number - Delete:  Insert:      Format:

Disconnect Supervision - In? y  Out? y
Answer Supervision Timeout: 0
                                CONNECT Reliable When Call Leaves ISDN? n
                                Delay Call Setup When Accessed Via IGAR? n
                                XOIP Treatment: auto
```

On **Page 3** configure as follows:

- **Send Name** – set to **y**
- **Send Calling Number** – set to **y**
- **Format** – set to **pub-unk**

```
add trunk-group next Page 3 of 21
TRUNK FEATURES
  ACA Assignment? n
  Measured: none
  Internal Alert? n      Maintenance Tests? y
  Data Restriction? n    NCA-TSC Trunk Member:
  Send Name: y          Send Calling Number: y
  Hop Dgt? n            Send EMU Visitor CPN? n
  Used for DCS? n
  Suppress # Outpulsing? n  Format: pub-unk
  UUI IE Treatment: service-provider

  Replace Restricted Numbers? n
  Replace Unavailable Numbers? n
  Send Called/Busy/Connected Number: n
  Hold/Unhold Notifications? y
  Send UUI IE? y        Modify Tandem Calling Number: no
  Send UCID? n
  Send Codeset 6/7 LAI IE? y

  Show ANSWERED BY on Display? y
```

On **Page 4** configure **QSIG Value-Added?** to **y**.

```
add trunk-group next                                     Page 4 of 21
                QSIG TRUNK GROUP OPTIONS

TSC Method for Auto Callback: drop-if-possible
  Diversion by Reroute? y
  Path Replacement? y
Path Replacement with Retention? n
  Path Replacement Method: better-route
  SBS? n

Character Set for QSIG Name: eurofont
QSIG Value-Added? y
QSIG-Value Coverage Encoding: proprietary
SIP Reference Trunk Group:
```

5.3. Configure Signaling Group

A signaling group must be used to define the signaling parameters of the H.323 trunk. Enter the command **add sig next** and configure as follows:

- **Group Number** – take a note of this number to be used in the trunk configuration above
- **Group Type** – set to **h.323**
- **Max number of NCA TSC** – set to **4**
- **Max number of CA TSC** – set to **4**
- **Trunk Group for NCA TSC** – set to the trunk group number configured above, in this case **7**
- **Trunk Group for Channel Selection** - set to the trunk group number configured above, in this case **7**
- **TSC Supplementary Service Protocol** – set to **b**
- **Near-end Node Name** – enter the processor node-name usually **procr**
- **Far-end Node Name** – enter the node-name assigned to NovaMail on NovaBox, in this case **NovaBox**
- **Far-end Listen Port** – set to **1720**
- **Direct IP-IP Audio Connections?** – ensure this is set to **n**
- **IP Audio Hairpinning?** – this must be set to **y**

```
add signaling-group next                               Page 1 of 2
                                                    SIGNALING GROUP

Group Number: 7                                     Group Type: h.323
  SBS? n                                           Remote Office? n
  Q-SIP? n                                         Max number of NCA TSC: 4
  IP Video? n                                     Max number of CA TSC: 4
  Trunk Group for Channel Selection: 7             Trunk Group for NCA TSC: 7
  TSC Supplementary Service Protocol: b           X-Mobility/Wireless Type: NONE
                                                    Network Call Transfer? n
                                                    T303 Timer(sec): 10

H.245 DTMF Signal Tone Duration(msec):
Near-end Node Name: procr                           Far-end Node Name: NovaBox
Near-end Listen Port: 1720                          Far-end Listen Port: 1720
                                                    Far-end Network Region: 1
  LRQ Required? n                                  Calls Share IP Signaling Connection? n
  RRQ Required? n
                                                    Bypass If IP Threshold Exceeded? n
                                                    H.235 Annex H Required? n
  DTMF over IP: out-of-band                       Direct IP-IP Audio Connections? n
Link Loss Delay Timer(sec): 90                     IP Audio Hairpinning? y
  Enable Layer 3 Test? n                           Interworking Message: PROGRESS
                                                    DCP/Analog Bearer Capability: 3.1kHz
```

5.4. Configure Call Routing

Enter the command **change route-pattern x** where **x** is an appropriate route pattern, in this case **7**. Enter an appropriate **Pattern Name** and configure the **Group Number** with the H.323 trunk group number configured in **Section 5.2**, set the FRL as appropriate.

change route-pattern 7											Page 1 of 3			
Pattern Number: 7											Pattern Name: To NovaLink			
SCCAN? n											Secure SIP? n			
Grp No	FRL	NPA	Pfx	Hop	Toll	No.	Inserted				DCS/ IXC			
											QSIG			
											Intw			
1:	7	0									n	user		
2:											n	user		
3:											n	user		
4:											n	user		
5:											n	user		
6:											n	user		
BCC VALUE TSC CA-TSC											ITC BCIE Service/Feature PARM		No. Numbering LAR	
0 1 2 M 4 W Request													Dgts Format	
											Subaddress			
1:	y	y	y	y	y	n	n			rest		none		
2:	y	y	y	y	y	n	n			rest		none		
3:	y	y	y	y	y	n	n			rest		none		
4:	y	y	y	y	y	n	n			rest		none		
5:	y	y	y	y	y	n	n			rest		none		
6:	y	y	y	y	y	n	n			rest		none		

During the compliance test 999 was dialed to reach NovaMail on NovaBox where the initial 9 is the feature access code used to access the auto routing selection table. Enter the command **change ars analysis 9** and configure a **Dialed String** of **99** **Total Min** and **Total Max** values of **2**, enter the **Route Pattern** configured above and set the **Call Type** to **pubu**. This will result in calls placed to 999 reaching NovaMail on NovaBox over the administered H.323 trunk.

change ars analysis 9							Page 1 of 2	
ARS DIGIT ANALYSIS TABLE							Location: all	
							Percent Full: 0	
Dialed String	Total Min	Total Max	Route Pattern	Call Type	Node Num	ANI Reqd		
99	2	2	7	pubu		n		

In addition to this coverage of calls to NovaMail on NovaBox was performed whereby extension 1xxx covered to mailbox 2xxx. Enter the command **change dialplan analysis** and configure so that a **Dialed String** beginning with **2** with a **Total Length** of **4** was assigned a **Call Type** of **udp**. This will result in calls to 2xxx being routed to the uniform dialplan table.

```

change dialplan analysis                                     Page 1 of 12
                                                           DIAL PLAN ANALYSIS TABLE
                                                           Location: all                                     Percent Full: 1

```

Dialed String	Total Length	Call Type	Dialed String	Total Length	Call Type	Dialed String	Total Length	Call Type
1	4	ext						
2	4	udp						
7	3	dac						
9	1	fac						
*	3	fac						
#	3	fac						

Enter the command **change uniform-dialplan 2** and configure a **Matching Pattern** of **2** with a **Length** of **4** is given a **Net** value of **aar**. This will result in calls to 2xxx being routed to the auto alternate routing table

```

change uniform-dialplan 0                                 Page 1 of 2
                                                           UNIFORM DIAL PLAN TABLE
                                                           Percent Full: 0

```

Matching Pattern	Len	Del	Insert Digits	Net	Conv	Node Num
2	4	0		aar	n	

Enter the command **change aar analysis 2** and configure a **Dialed String** of **2** with a **Total Min** and **Max** value of **4** to use **Route Pattern 7** with a **Call Type** of **aar**. This will result in calls to 2xxx being routed over the trunk configured in route pattern 7 configured above.

```

change aar analysis 2                                     Page 1 of 2
                                                           AAR DIGIT ANALYSIS TABLE
                                                           Location: all                                     Percent Full: 0

```

Dialed String	Total Min	Total Max	Route Pattern	Call Type	Node Num	ANI Req'd
2	4	4	7	aar		n

5.5. Configure Public-Unknown-Numbering Table

In Section 5.2 on Page 3 of the trunk group the **Format** is configured as **pub-unk**; as such, the public-unknown numbering table must be configured so that the appropriate calling party number is presented for calls placed over this trunk. Enter the command **change public-unknown-numbering 0** and administer accordingly. In the example below, a number with an **Extension Length** of **4**, starting with an **Extension Code** of **1** present a **Total CPN Length** of **4** digits when calling over **Trunk Group 7**.

change public-unknown-numbering 0					Page 1 of 2
NUMBERING - PUBLIC/UNKNOWN FORMAT					
Ext Len	Ext Code	Trk Grp (s)	CPN Prefix	Total CPN Len	
4	1	1		4	Total Administered: 4
4	1	2	0207555	11	Maximum Entries: 9999
4	1	7		4	Note: If an entry applies to a SIP connection to Avaya Aura(R) Session Manager, the resulting number must be a complete E.164 number.
4	1	9		4	Communication Manager automatically inserts a '+' digit in this case.

5.6. Configure Coverage Paths

A coverage path must be configured so that the desired voicemail box is reached when the called station is not answered. Enter the command **change coverage remote 1** and administer an appropriate mailbox number. For the purposes of the compliance test extensions 1000 – 1003 were used and given a NovaMail on NovaBox destination of 2000-2003 respectively. Note the respective entry number **01 – 04**.

change coverage remote 1			Page 1 of 23
REMOTE CALL COVERAGE TABLE			
ENTRIES FROM 1 TO 1000			
01: 2000	16:	31:	
02: 2001	17:	32:	
03: 2002	18:	33:	
04: 2003	19:	34:	
05:	20:	35:	

Enter the command **add coverage path x** where **x** is the required coverage path number. Enter the required remove coverage path in **Point 1**. In the example below, **coverage path 1000** is configured with **Point1** with a value of **r01**, where **r01** routes to **2000** configured above.

```

add coverage path 1000                                     Page 1 of 1
                                COVERAGE PATH

                                Coverage Path Number: 1000
                                Cvg Enabled for VDN Route-To Party? n      Hunt after Coverage? n
                                Next Path Number:                          Linkage

COVERAGE CRITERIA
  Station/Group Status   Inside Call   Outside Call
      Active?             n             n
      Busy?                Y             Y
      Don't Answer?       Y             Y      Number of Rings: 2
      All?                 n             n
  DND/SAC/Goto Cover?    Y             Y
  Holiday Coverage?      n             n

COVERAGE POINTS
  Terminate to Coverage Pts. with Bridged Appearances? n
  Point1: r01           Point2:
  Point3:                 Point4:
  Point5:                 Point6:
  
```

Enter the command **change station x** where **x** is the station to be configured with a coverage patch and configure **Coverage Path 1** with the appropriate coverage path number, in this case **1000**. Repeat as necessary.

```

change station 1000                                     Page 1 of 5
                                STATION

Extension: 1000          Lock Messages? n          BCC: 0
  Type: 9630             Security Code: 1234      TN: 1
  Port: S00000          Coverage Path 1: 1000    COR: 1
  Name: Extn,1000      Coverage Path 2:          COS: 1
                                Hunt-to Station:          Tests? y

STATION OPTIONS
                                Time of Day Lock Table:
  Loss Group: 19        Personalized Ringing Pattern: 1
                                Message Lamp Ext: 1000
  Speakerphone: 2-way   Mute Button Enabled? y
  Display Language: english  Button Modules: 0
  Survivable GK Node Name:
  Survivable COR: internal  Media Complex Ext:
  Survivable Trunk Dest? y  IP SoftPhone? n

                                IP Video? n
                                Short/Prefixed Registration Allowed: default
                                Customizable Labels? y
  
```

5.7. Configure System Features

Communication Manager must be configured with the correct message waiting indicator digit length value. Enter the command **change system-parameters features** and on **Page 8** configure the **QSIG/ETSI TSC Extension** with available number in accordance with the dialplan and set the **MWI – Number of Digits Per Voice Mail Subscriber** to match with the extension length used, in this case **4**.

```
change system-parameters features                               Page 8 of 20
                                FEATURE-RELATED SYSTEM PARAMETERS

ISDN PARAMETERS
CREATING
  Send Non-ISDN Trunk Group Name as Connected Name? n
NUMBERS
  Display Connected Name/Number for ISDN DCS Calls? n
    Send ISDN Trunk Group Name on Tandem Calls? n
    Send Custom Messages Through QSIG? n
    QSIG/ETSI TSC Extension: 1994
MWI - Number of Digits Per Voice Mail Subscriber: 4

    National CPN Prefix:
    International CPN Prefix:
      Pass Prefixed CPN: ASAI? n   VDN/Vector? n
    Delay for USNI Calling Name for Analog Caller ID Phones (seconds): 0
    Unknown Numbers Considered Internal for AUDIX? n
      USNI Calling Name for Outgoing Calls? n
      Path Replacement with Measurements? y
      QSIG Path Replacement Extension:
    Send QSIG Path Replacement Conf. Event to ASAI? y
      Path Replace While in Queue/Vectoring? n
```

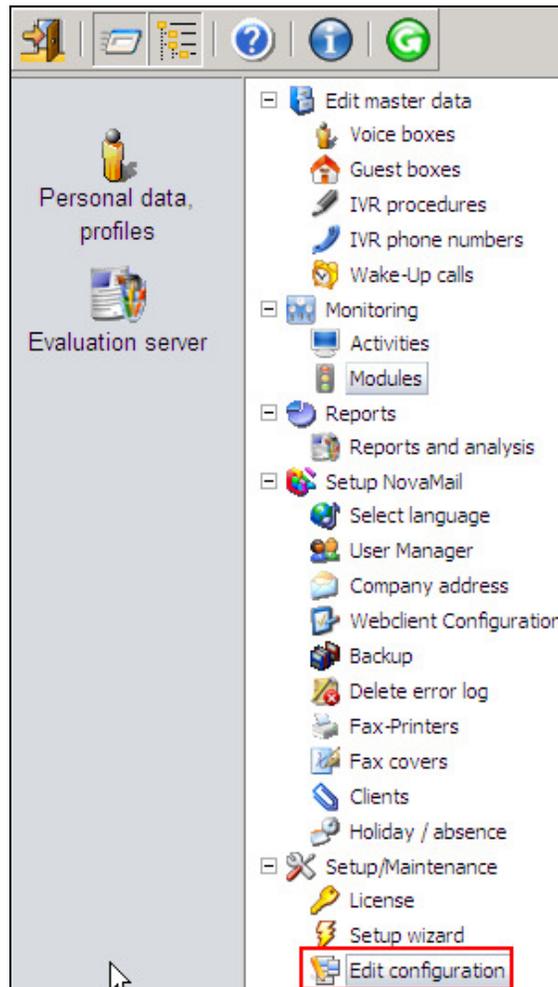
6. Configure Novalink NovaMail on Novabox

The configuration of NovaMail on NovaBox is performed using its web interface and can be summarized as follows:

- Configure Avaya Aura® Communication Manager Integration Parameters
- Configure H.323 Trunk
- Configure Mailboxes

6.1. Configure Communication Manager Integration Parameters

Click **System** → **Setup/Maintenance** → **Edit Configuration**



In the right hand pane, configure as shown below where:

- **Signalisation Type** – set to **32** to define QSIG VoIP trunk parameters
- **PBX Type** – set to **11** to define Communication Manager parameters
- **Use Called Party** – set to 1 to detect the called party number and not waiting for any diverting party information
- **Group number** – set to the number used to retrieve messages from internal extensions
- **Default Calling Party** – set to the number required as calling party number for outcalls
- **Change incoming calling numbers** – set according to the number length of the extension on Communication Manager. e.g. where a number starting with **2** which is **4** digits in length has the first digit replaced with **1**. This is necessary as the diverting party information is missing on the setup information of incoming calls to NovaMail. As configured in **Section 5.6** all extensions have a different number for diversion to NovaMail. In this example, all extensions with numbers 1xxx divert to 2xxx and NovaMail detects the last 3 digits and changes the first digit back to “1” for accessing the right mailbox-number.

Overview:		Call Control
[CallInfo]		
Interface (Interface)	<u>9</u>	
Signalisation Type (SigTyp)	<u>32</u>	
PBX Type (PBXType)	<u>11</u>	
Use Called Party (UseCalledParty)	<u>1</u>	
Group number (Sammelanschluss)	<u>99</u>	
Card Driver (CardDriver)	<u>3</u>	
Does QSIG support SSCT (QsigSsctSupported)	<u>0</u>	
Channel ID Length (ChannelIDLength)	<u>0</u>	
Minimum Digits (MinDigits)	<u>0</u>	
Use Cause Information Element (UseCauseIE)	<u>1</u>	
Default Local Name (DefaultLocalName)	<u>NovaMail</u>	
Default Calling Party (DefaultCallingParty)	<u>01932888999</u>	
Change incoming call numbers (MailboxUmrechnen)	<u>2,4,1</u>	
Use Last Diverting Party (UseLastDivertingParty)	<u>0</u>	

Continue to scroll down to the **NovaMail** section and ensure the **Message Waiting activation** and **Message Waiting clear** fields are empty.

Overview:

[NovaMail]	NovaMail Configuration	
<u>Own numbers (EigeneNr)</u>	<u>0</u>	
<u>Alarm Server Phone number (AlarmServerNr)</u>		
<u>Timeout internal (CallLängeIntern)</u>	<u>30</u>	
<u>Timeout external (CallLängeExtern)</u>	<u>30</u>	
<u>Front Office Numbers (FrontOfficeNummer)</u>		
<u>Main numbers (ZentraleNummer)</u>	<u>999</u>	
<u>Main number Reset (ZentraleReset)</u>	<u>1</u>	
<u>Min Mail length (MinMailLänge)</u>	<u>20000</u>	
<u>Max Mail length (MaxMailLänge)</u>	<u>120</u>	
<u>Profile deactivation (DeaktivierenProfile)</u>	<u>0</u>	
<u>PraefixIntRufNr (PraefixIntRufNr)</u>		
<u>Calling Party Identification (RufnummerIdentifikation)</u>	<u>0</u>	
<u>Message Waiting activation (MWAktivieren)</u>		
<u>Message Waiting clear (MWLöschen)</u>		

6.2. Configure H.323 Trunk

Continuing from the previous section, scroll down the page displayed and configure the **VoIP** section as shown below where **H323 Gateway** is the IP address assigned to the Communication Manager procr interface.

Overview:

[VoIP]	Voice over IP Configuration	
Driver Preferences (DriverPref)	<u>2</u>	
Local User Name (LocalUserName)	<u>NovaMail</u>	
H323 Gateway (H323_Gateway)	<u>10.10.16.211</u>	
H323 Use Fast Start (H323_UseFastStart)	<u>0</u>	
H323 Use H245 Tunneling (H323_UseH245Tunneling)	<u>0</u>	
H323 Listener Configuration (H323_ListenerConfig)	<u>*:1720</u>	
H323 Use GateKeeper (H323_UseGateKeeper)	<u>0</u>	
H323 GateKeeper Address (H323_GateKeeperAddress)		
H323 GateKeeper Zone (H323_GateKeeperZone)		
H323 GateKeeper Password (H323_GateKeeperPwd)		

6.3. Configure Mailboxes

Voicemail boxes must be configured on NovaMail on NovaBox, click **Edit master Data** → **Voice Boxes** → **New voice box**.



Configure the new voice box as follows:

- **Internal phone number** – enter the extension number for the Communication Manager extension
- **Surname / First name** – enter a descriptive name
- **Pin code** – enter the PIN number used to access the voice box
- **From own unit without Pin** – place a check in this box

The screenshot shows a web-based configuration interface titled "Process participants". At the top right, there is a "Back" link and a help icon. Below the title bar, there are input fields for "Number:", "Name:", and "Client:" (set to "All"). A tabbed interface below shows "General", "Email", "Additional participants", "Profiles", and "Messages". The "General" tab is selected and contains the following fields:

- Internal phone number:** 1000
- Surname / First name:** Test Mailbox
- Pin code:** 1234
- From own unit without Pin:**
- Language:** English
- Internal fax number:** (empty)
- Outg. fax authorization:**
- Fax priority:** Normal

A red rectangular box highlights the "Internal phone number", "Surname / First name", "Pin code", and "From own unit without Pin" fields.

Click on the **Profiles** tab and enter the PSTN number to be used for outcalling in the **Alternative Phone number 1** field. Click **Adopt data** when done.

Process participants Back ?

Number: Name:

Client:

General | Email | Additional participants | **Profiles** | Messages

Alternative Phone number 1:

Alternative phone number 2:

Deputy's phone number:

Fixed diversion dest. for messages:

Click on **Voice boxes** to view the newly administered voice box. Repeat as necessary.

Voice boxes Admin ?

Internal Number	Name		
1000	Test Mailbox		
1001	Pope Richard		
1002	Falk Peter		
1003	Meier Andreas		

7. Verification Steps

This section provides the tests that can be performed to verify the proper configuration of NovaMail on NovaBox with Communication Manager.

7.1. Verify Avaya Aura® Communication Manager H.323 Trunk Status

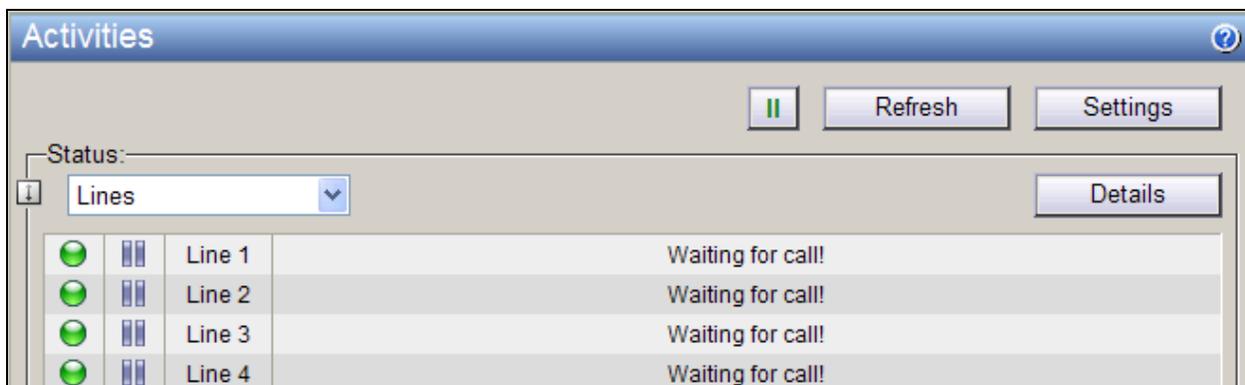
Enter the command **status trunk x** where **x** is the H.323 trunk configured in **Section 5.2** and verify that the **Service State** is **in-service**.

```
status trunk 7
```

TRUNK GROUP STATUS			
Member	Port	Service State	Mtce Connected Ports Busy
0007/001	T00086	in-service /idle	no
0007/002	T00087	in-service /idle	no
0007/003	T00088	in-service /idle	no
0007/004	T00089	in-service /idle	no

7.2. Verify NovaLink NovaMail on NovaBox Status

From the NovaMail on NovaBox web interface navigate to **Monitoring** → **Activities** and verify that the icon in the left column is green indicating that the H.323 trunks are in service and the procr interface can be reached.



7.3. Verify Successful Delivery of Voicemail

Place a call to a Communication Manager extension with a coverage path to voicemail configured. Ensure that NovaMail on NovaBox answers the call with the appropriate mailbox greeting is heard and a message can be left. Verify that the message waiting indicator on the endpoint is illuminated.

7.4. Verify Successful Retrieval of Voicemail

Dial the voicemail retrieval access number from the Communication Manager extension. Ensure that NovaMail on NovaBox automatically recognizes the user and is not prompted for a PIN. Verify that the audio prompts advise a message has been left and use the buttons on the telephone keypad to navigate the menu, listen to, and delete the message. Verify that the message waiting indicator is extinguished once all messages have been played back.

8. Conclusion

These Application Notes describe the configuration steps required for NovaLink NovaMail on NovaBox to successfully interoperate with Avaya Aura® Communication Manager. All feature test cases were completed successfully with any observations noted in **Section 2.2**.

9. Additional References

This section references the product documentation relevant to these Application Notes.

1. *Administering Avaya Aura® Communication Manager*, Release 6.3, 03-300509, Issue 8, May 2013
2. [ftp://support.novalink.ch/Technikerhandbuch/English/Technikerhandbuch NovaLink GmbH EN.chm](ftp://support.novalink.ch/Technikerhandbuch/English/Technikerhandbuch%20NovaLink%20GmbH%20EN.chm)
(please request Login and Password from NovaLink)

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