



## **Avaya Solution & Interoperability Test Lab**

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# **Application Notes for Konftel 300W and Avaya Aura™ Communication Manager – Issue 1.0**

### **Abstract**

These Application Notes describe the compliance testing of Konftel 300W with Avaya Aura™ Communication Manager. The Konftel 300W is a conference unit which communicates with Communication Manager via the Avaya R4 DECT base station. The compliance testing tested the major functions of the Konftel 300W product.

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.

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# 1. Introduction

These Application Notes describe the configuration steps required for Konftel 300W to successfully interoperate with Communication Manager via the Avaya R4 DECT base station. The Konftel 300W is a wireless DECT conference endpoint which can be attached to an external power source or run from its internal rechargeable battery. Placed within a conference room, the Konftel 300W enables all of the participants in the room to take part in a telephone conversation. A conference can be initiated with up to two other parties as allowed by Communication Manager for single line appearance telephones. Due to its wireless roaming abilities and internal power source, the 300W can be moved among conference rooms without reconnection or reconfiguration. The unit also performs echo cancellation to avoid feedback problems that might otherwise occur. A “Conference” function key allows the easy establishment of recurring or ad hoc conferences. For conferences with more than three participants, the Communication Manager “meet-me” conference feature can be used. The Konftel 300W has a keypad/display, shown in the figure below, which serves as a telephone keypad, as well as providing additional functions.



**Figure 1: Konftel 300W Keypad /Display**

The 300W communicates with Communication Manager via one or more Avaya R4 DECT base stations, as dictated by the coverage requirements of the campus within which the 300W is used.

This document details the configuration used for the compliance testing of Konftel 300W with Communication Manager and the Avaya R4 DECT base station.

## 1.1. Interoperability Compliance Testing

The compliance testing included the following test scenarios:

- Registration / De-registration
- Roaming
- Basic call (local, external, priority call)
- Long calls
- Call waiting and call toggle
- Hold / retrieve
- Supervised / blind transfer
- Ad hoc conference
- Automatic conference
- Instant conference
- Meet-Me conference
- DTMF
- Serviceability: automatic startup after power interruption

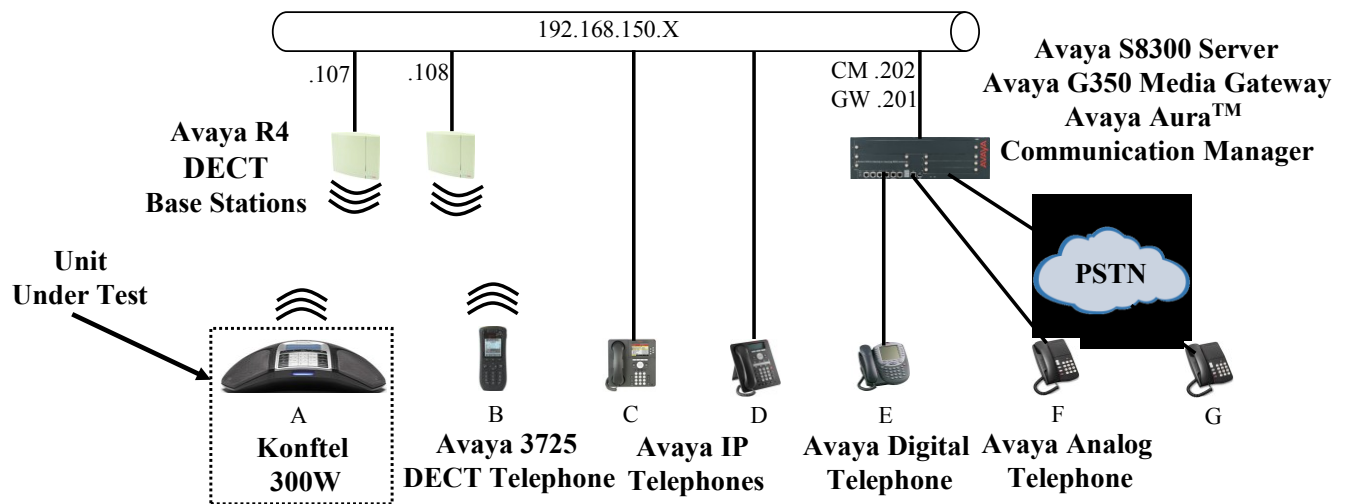
## 1.2. Support

Support from Avaya is available at <http://support.avaya.com/>.

Support for Konftel products is available at

- Web-based support: <http://www.konftel.com/>
- Email: [info@konftel.com](mailto:info@konftel.com)
- International help desk: +46 90706489
- North American help: +1 866-606-4728.

## 2. Reference Configuration



**Figure 2: Reference Configuration**

The Konftel 300W in the above diagram interfaces wirelessly to Communication Manager via the Avaya R4 DECT base stations. Although it is possible to use the Konftel 300W with a single Avaya R4 base station, two Avaya R4 base stations are included in the reference configuration, to allow the roaming abilities of the Konftel 300W to be tested.

The following table contains additional information about how each of the telephones contained in the above diagram are configured in Communication Manager:

Diagram	Ext	Endpoint
A	10302	Konftel 300W
B	10304	Avaya 3725 DECT Telephone
C	10172	Avaya 9620 IP Telephone
D	10062	Avaya 1608 IP Telephone
E	10202	Avaya 2410 Digital Telephone
F	10001	Avaya 2500 Analog Telephone
G	06911111111	ISDN endpoint

**Table 1: Extensions Used for Testing**

### 3. Equipment and Software Validated

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

Software Component	Version
Avaya Aura <sup>TM</sup> Communication Manager	R015x.01.2.416.4
Avaya G350 Media Gateway	30.10.4
Avaya G350 Analog Module	HW06/FW093
Avaya 2410 Digital Telephone	5.0
Avaya 1608 Telephone	1.2.2
Avaya 9620 Telephone	3.1.1
Avaya 3725 DECT Telephone	3.0.10
Avaya R4 DECT	Hardware: IPBS1-Y3/PB, IPBS: 3.2.8, Bootcode: 3.0.26
Konftel 300W	1.7b.XXXX

**Table 2: Equipment and Versions Validated**

### 4. Configure Avaya Aura<sup>TM</sup> Communication Manager

The configuration and verification operations illustrated in this section were performed using the Communication Manager System Administration Terminal (SAT).

Note that the configuration of the interface to the PSTN is out of the scope of these Application Notes.

## 4.1. Verify System-Parameters Special-Applications

Use the **display system-parameters special-applications** command to verify that Communication Manager is configured to meet the minimum requirements to support the special applications used for these tests, as shown by the parameter values in **Table 3**. If these are not met in the configuration, please contact an Avaya representative for further assistance.

Parameter	Usage
PMS X-Station Mobility over IP	The value must be set to “y”.

**Table 3: Configuration Values for System-Parameters Special-Applications**

display system-parameters special-applications	Page 4 of 9
SPECIAL APPLICATIONS	
(SA8481) - Replace Calling Party Number with ASAI ANI? n	
(SA8500) - Expanded UII Display Information? n	
(SA8506) - Altura Interoperability (FIPN)? n	
(SA8507) - H245 Support With Other Vendors? n	
(SA8508) - Multiple Emergency Access Codes? n	
(SA8510) - NTT Mapping of ISDN Called-Party Subaddress IE? n	
(SA8517) - Authorization Code By COR? n	
(SA8520) - Hoteling Application for IP Terminals? n	
(SA8558) - Increase Automatic MWI & VuStats (S8700 only)? n	
(SA8567) - PHS X-Station Mobility over IP? y	
(SA8569) - No Service Observing Tone Heard by Agent? n	
(SA8573) - Call xfer via ASAI on CAS Main? n	
(SA8582) - PSA Location and Display Enhancements? n	
(SA8587) - Networked PSA via QSIG Diversion? n	
(SA8589) - Background BSR Polling? n	
(SA8608) - Increase Crisis Alert Buttons (S8700 only)? n	
(SA8621) - SCH Feature Enhancements? n	

**Figure 3: System-Parameters Special-Applications Form, Page 4**

## 4.2. Verify System-Parameters Customer-Options

Use the **display system-parameters customer-options** command to verify that Communication Manager is configured to meet the minimum requirements to support the configuration used for these tests, as shown by the parameter values in **Table 4**. If these are not met in the configuration, please contact an Avaya representative for further assistance.

Parameter	Usage
Maximum Stations (Page 1)	The value must be sufficient to allow the number of stations, including the 300W, shown in <b>Table 1</b> .
Maximum XMOBILE Stations (Page 1)	The value must be sufficient to allow the number of DECT stations, including the 300W, shown in <b>Table 1</b> .
Maximum Concurrently Registered IP Stations (Page 2)	The value must be sufficient to allow the number of IP stations, including the 300W, shown in <b>Table 1</b> .

**Table 4: Configuration Values for System-Parameters Customer-Options**

display system-parameters customer-options		Page 1 of 11
OPTIONAL FEATURES		
G3 Version: V15	Software Package: Standard	
Location: 2	RFA System ID (SID): 1	
Platform: 13	RFA Module ID (MID): 1	
		USED
Platform Maximum Ports: 900		60
<b>Maximum Stations: 450</b>		<b>8</b>
<b>Maximum XMOBILE Stations: 100</b>		<b>0</b>
Maximum Off-PBX Telephones - EC500: 0		0
Maximum Off-PBX Telephones - OPS: 100		0
Maximum Off-PBX Telephones - PBFMC: 0		0
Maximum Off-PBX Telephones - PVFMC: 0		0
Maximum Off-PBX Telephones - SCCAN: 0		0

**Figure 4: System-Parameters Customer-Options Form, Page 1**

display system-parameters customer-options		Page 2 of 11
OPTIONAL FEATURES		
IP PORT CAPACITIES		USED
Maximum Administered H.323 Trunks: 1000		50
<b>Maximum Concurrently Registered IP Stations: 18000</b>		<b>5</b>
Maximum Administered Remote Office Trunks: 0		0
Maximum Concurrently Registered Remote Office Stations: 0		0
Maximum Concurrently Registered IP eCons: 0		0
Max Concur Registered Unauthenticated H.323 Stations: 0		0
Maximum Video Capable H.323 Stations: 0		0
Maximum Video Capable IP Softphones: 0		0
Maximum Administered SIP Trunks: 1000		30
Maximum Administered Ad-hoc Video Conferencing Ports: 0		0
Maximum Number of DS1 Boards with Echo Cancellation: 0		0
Maximum TN2501 VAL Boards: 10		1
Maximum Media Gateway VAL Sources: 0		0
Maximum TN2602 Boards with 80 VoIP Channels: 128		0
Maximum TN2602 Boards with 320 VoIP Channels: 128		0
Maximum Number of Expanded Meet-me Conference Ports: 0		0

**Figure 5: System-Parameters Customer-Options Form, Page 2**

### 4.3. Configure IP Interfaces

Use the **change node-names ip** command to configure the IP address of the Avaya R4 master base station.

change node-names ip		Page 1 of 2
		IP NODE NAMES
Name	IP Address	
default	0.0.0.0	
<b>dect</b>	<b>192.168.150.107</b>	
procr	192.168.150.202	

**Figure 6: Node-Names IP Form**

#### 4.3.1. Interface to Avaya R4

The signaling group and trunk group described in this section are closely interrelated. If the signaling group is allocated first, all trunk group parameters must initially be set to blank and entered in a subsequent step, after the trunk group has been added.

Use the **add signaling-group** command to allocate a signaling group for interface to the Avaya R5 using the following parameters:

Parameter	Usage
Group Type	Enter “h.323”.
Max number of NCA TSC	Enter a value of 1 or greater.
Max number of CA TSC	Enter a value of 1 or greater.
Trunk Group for NCA TSC	Enter the number of the DECT trunk group allocated in <b>Figure 8</b> .
X-Mobility/Wireless Type	Enter “DECT”.
Trunk Group for Channel Selection	Enter the number of the DECT trunk group allocated in <b>Figure 8</b> .
Near-end Node Name	Enter “procr” to designate the G350 processor as the near end node name.
Far-end Node Name	Enter “dect” to assign the Avaya R4 base station as the far end node name.
Near-end Listen Port	Specify an otherwise unused port to be used to listen for incoming voice traffic.
Far-end Listen Port	Specify the port assigned to the Avaya R4 as “Local Port” in <b>Figure 31</b> .
Direct IP-IP Audio Connections	Enter “y” to allow direct IP-IP endpoint connections (shuffling).

**Table 5: Avaya R4 Signaling-Group Parameters**

add signaling-group 8		Page 1 of 6	
SIGNALING GROUP			
Group Number: 8	<b>Group Type: h.323</b>		
	Remote Office? n	<b>Max number of NCA TSC: 5</b>	
	SBS? n	<b>Max number of CA TSC: 5</b>	
IP Video? n		<b>Trunk Group for NCA TSC: 8</b>	
	<b>Trunk Group for Channel Selection: 8</b>	<b>X-Mobility/Wireless Type: DECT</b>	
	TSC Supplementary Service Protocol: a		
	T303 Timer(sec): 10		
H.245 DTMF Signal Tone Duration(msec):			
	<b>Near-end Node Name: procr</b>	<b>Far-end Node Name: dect</b>	
	<b>Near-end Listen Port: 5210</b>	<b>Far-end Listen Port: 5210</b>	
		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	<b>Direct IP-IP Audio Connections? y</b>		
Link Loss Delay Timer(sec): 90	IP Audio Hairpinning? n		
<b>Enable Layer 3 Test? y</b>	Interworking Message: PROGress		
H.323 Station Outgoing Direct Media? n	DCP/Analog Bearer Capability: 3.1kHz		

**Figure 7: Avaya R4 Signaling-Group Form**

Use the **add trunk-group <n>** command, where <n> is an unused trunk number, to allocate a trunk group to be used as an interface to the Avaya R4 Base Station. Use the parameters show in the following table.

Parameter	Usage
Group Type (Page 1)	Enter “isdn”.
Group Name (Page 1)	Assign a name for identification purposes.
TAC (Page 1)	Enter the Trunk Access Code to be used to identify this trunk.
Direction (Page 1)	Enter “two-way
Carrier Medium (Page 1)	Enter “H.323”.
Service Type (Page 1)	Enter “tie”.
Member Assignment Method (Page 1)	Enter “auto”.
Signaling Group (Page 1)	Enter number of the signaling group allocated in <b>Figure 7</b> .
Number of Members (Page 1)	Enter a number large enough to support the maximum number of anticipated simultaneous calls to be made via the DECT trunk.
Codeset to Send Display (Page 2)	CONNECT Reliable When Call Leaves ISDN
Digit Handling (in/out) (Page 2)	Enter “overlap/enbloc”
Disconnect Supervision In / Out (Page 2)	Enter “y” / “y”.
CONNECT Reliable When Call Leaves ISDN (Page 2)	Enter “n”.
NCA-TSC Trunk Member (Page 3)	Enter “1”.
Send Calling Number (Page 3)	Enter “y”.
Format (Page 3)	Enter “unk-pvt”
Send Connected Number (Page 3)	Enter “y”.

**Table 6: Avaya R4 Trunk-Group Parameters**

add trunk-group 8		Page 1 of 21	
TRUNK GROUP			
Group Number: 8	Group Type: isdn	CDR Reports: y	
Group Name: DECT	COR: 1	TN: 1	TAC: *08
Direction: two-way	Outgoing Display? n	Carrier Medium: H.323	
Dial Access? y	Busy Threshold: 255	Night Service:	
Queue Length: 0	Auth Code? n		
Service Type: tie	Member Assignment Method: auto		
	Signaling Group: 8		
	Number of Members: 10		

**Figure 8: Avaya R4 Trunk-Group Form, Page 1**

add change trunk-group 8		Page 2 of 21
Group Type: isdn		
TRUNK PARAMETERS		
Codeset to Send Display: 0	Codeset to Send National IEs: 6	
	Charge Advice: none	
Supplementary Service Protocol: a	Digit Handling (in/out): overlap/enbloc	
Digit Treatment:	Digits:	
	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		

**Figure 9: Avaya R4 Trunk-Group Form, Page 2**

add trunk-group 8		Page 3 of 21
TRUNK FEATURES		
ACA Assignment? n	Measured: none	
	Internal Alert? n	Maintenance Tests? y
	Data Restriction? n	NCA-TSC Trunk Member: 1
	Send Name: n	Send Calling Number: y
Used for DCS? n		Send EMU Visitor CPN? n
Suppress # Outpulsing? n	Format: unk-pvt	
	UUI IE Treatment: service-provider	
	Replace Restricted Numbers? n	
	Replace Unavailable Numbers? n	
	Send Connected Number: y	
	Hold/Unhold Notifications? n	
Send UUI IE? y	Modify Tandem Calling Number? n	
Send UCID? n		
Send Codeset 6/7 LAI IE? y		

**Figure 10: Avaya R4 Trunk-Group Form, Page 3**

## 4.4. Add Stations

### 4.4.1. Add Mobile Stations

Use the **add station** command to add an extension for each of the mobile extensions listed in **Table 1** using the parameters shown in the following table.

Parameter	Usage
Type	Enter “XMOBILE” for an analog telephone.
Name	Enter an appropriate name to identify the station.
XMOBILE Type	Enter “DECT”.
Mobility Trunk Group	Enter the number of the trunk group which allocated in <b>Figure 8</b> for connection to the Avaya R4 base station.
Cell Phone Number	Enter the number allocated to this station.
Mapping Mode	Enter “both”.
Length of Display	Enter “12x3”.

**Table 7: Mobile Station Parameters**

```
add station 10301                                     Page 1 of 4
                                                    STATION
Extension: 10301                                     Lock Messages? n      BCC: 0
  Type: XMOBILE                                     Security Code:        TN: 1
  Name: extn 10301                                   Coverage Path 1:      COR: 1
                                                    Coverage Path 2:      COS: 1
                                                    Hunt-to Station:
STATION OPTIONS
                                                    Time of Day Lock Table:
  XMOBILE Type: DECT                                Message Lamp Ext: 10301
  Display Module? y                                Message Waiting Type: ICON
  Display Language: english                        Length of Display: 12x3
  Mobility Trunk Group: 8                          Calls Allowed: all
  Configuration Set:
CELL PHONE NUMBER MAPPING
  Dial Prefix:
  Cell Phone Number: 10301
  Mapping Mode: both
```

**Figure 11: Mobile Station Form**

#### 4.4.2. Add IP Stations

Use the **add station** command to add an extension for each of the IP extensions listed in **Table 1** using the parameters shown in the following table.

Parameter	Usage
Type	Enter endpoint type as shown in <b>Table 1</b> .
Name	Enter an appropriate name to identify the station.
Security Code	Enter an appropriate security code for the station.

**Table 8: IP Station Parameters**

```
add station 10172                                     Page 1 of 5
                                                    STATION
Extension: 10172                                     Lock Messages? n          BCC: 0
  Type: 9620                                           Security Code: 123456      TN: 1
  Port: S00006                                         Coverage Path 1:          COR: 1
  Name: extn 10172                                     Coverage Path 2:          COS: 1
                                                    Hunt-to Station:
STATION OPTIONS
                                                    Time of Day Lock Table:
  Loss Group: 19                                     Personalized Ringing Pattern: 1
                                                    Message Lamp Ext: 10172
  Speakerphone: 2-way                               Mute Button Enabled? y
  Display Language: english
Survivable GK Node Name:
  Survivable COR: internal                           Media Complex Ext:
  Survivable Trunk Dest? y                           IP SoftPhone? n
                                                    Customizable Labels? y
```

**Figure 12: IP Station Form**

#### 4.4.3. Add Analog Stations

Use the **add station** command to add an extension for each of the room extensions listed in **Table 1** using the parameters shown in the following table.

Parameter	Usage
Type	Enter “2500” for an analog telephone.
Port	Enter the address of the port to which the telephone is attached.
Name	Enter an appropriate name to identify the station.

**Table 9: Analog Station Parameters**

```

add station 10202                                     Page 1 of 4

                                STATION

Extension: 10202                                Lock Messages? n                BCC: 0
  Type: 2500                                Security Code:                TN: 1
  Port: 001V702                            Coverage Path 1:              COR: 1
  Name: extn 10202                        Coverage Path 2:              COS: 1
                                          Hunt-to Station:              Tests? y

STATION OPTIONS
  XOIP Endpoint type: auto                Time of Day Lock Table:
  Loss Group: 1                          Message Waiting Indicator: none
  Off Premises Station? n

Survivable COR: internal
Survivable Trunk Dest? y

```

**Figure 13: Analog Station Form**

#### 4.4.4. Add Digital Stations

Use the **add station** command to add an extension for each of the room extensions listed in **Table 1** using the parameters shown in the following table.

Parameter	Usage
Type	Enter endpoint type as shown in <b>Table 1</b> .
Port	Enter the address of the port to which the telephone is attached.
Name	Enter an appropriate name to identify the station.

**Table 10: Mobile Station Parameters**

```

add station 10001                                     Page 1 of 5

                                STATION

Extension: 10001                                Lock Messages? n                BCC: 0
  Type: 2410                                Security Code:                TN: 1
  Port: 001V301                            Coverage Path 1:              COR: 1
  Name: extn 10001                        Coverage Path 2:              COS: 1
                                          Hunt-to Station:

STATION OPTIONS
  Loss Group: 2                          Time of Day Lock Table:
  Speakerphone: 2-way                    Personalized Ringing Pattern: 1
  Display Language: english                Message Lamp Ext: 10001
                                          Mute Button Enabled? y

Survivable COR: internal                    Media Complex Ext:
Survivable Trunk Dest? y                    IP SoftPhone? n

Customizable Labels? y

```

**Figure 14: Mobile Room Station Form**

## 4.5. Configure Meet-Me Conferencing

Since Communication Manager limits single line-appearance endpoints to initiating conferences with a maximum of two other participants, a “meet-me” conference can optionally be established if more than this number of participants is required. Use of this feature requires that “Enhanced Conferencing” be included in the feature set, as indicated by the “system-parameters customer-options” form. Furthermore, the “Maximum Media Gateway VAL Sources” configuration value must be sufficient to allow the Media Gateway to serve as a source of announcements. If these requirements are not met in the configuration, please contact an Avaya representative for further assistance.

display system-parameters customer-options		Page 2 of 11
OPTIONAL FEATURES		
IP PORT CAPACITIES		USED
Maximum Administered H.323 Trunks:	100	10
Maximum Concurrently Registered IP Stations:	450	2
Maximum Administered Remote Office Trunks:	0	0
Maximum Concurrently Registered Remote Office Stations:	0	0
Maximum Concurrently Registered IP eCons:	0	0
Max Concur Registered Unauthenticated H.323 Stations:	0	0
Maximum Video Capable H.323 Stations:	0	0
Maximum Video Capable IP Softphones:	0	0
Maximum Administered SIP Trunks:	100	15
Maximum Administered Ad-hoc Video Conferencing Ports:	0	0
Maximum Number of DS1 Boards with Echo Cancellation:	0	0
Maximum TN2501 VAL Boards:	0	0
<b>Maximum Media Gateway VAL Sources:</b>	<b>10</b>	<b>1</b>
Maximum TN2602 Boards with 80 VoIP Channels:	0	0
Maximum TN2602 Boards with 320 VoIP Channels:	0	0
Maximum Number of Expanded Meet-me Conference Ports:	0	0

Figure 15: System-Parameters Customer-Options Form, Page 2

display system-parameters customer-options		Page 4 of 11
OPTIONAL FEATURES		
Emergency Access to Attendant? y	IP Stations? y	
Enable 'dadmin' Login? y		
<b>Enhanced Conferencing? y</b>	ISDN Feature Plus? n	
Enhanced EC500? y	ISDN/SIP Network Call Redirection? n	
Enterprise Survivable Server? n	ISDN-BRI Trunks? y	
Enterprise Wide Licensing? n	ISDN-PRI? y	
ESS Administration? n	Local Survivable Processor? n	
Extended Cvg/Fwd Admin? y	Malicious Call Trace? n	
External Device Alarm Admin? n	Media Encryption Over IP? n	
Five Port Networks Max Per MCC? n	Mode Code for Centralized Voice Mail? n	
Flexible Billing? n		
Forced Entry of Account Codes? n	Multifrequency Signaling? y	
Global Call Classification? n	Multimedia Call Handling (Basic)? n	
Hospitality (Basic)? y	Multimedia Call Handling (Enhanced)? n	
Hospitality (G3V3 Enhancements)? y	Multimedia IP SIP Trunking? n	
IP Trunks? y		
IP Attendant Consoles? n		

Figure 16: System-Parameters Customer-Options Form, Page 4

### 4.5.1. Create Conference Announcements

Configure the announcement facility of the media gateway by entering the parameters shown below for port V9 of the media gateway.

change media-gateway 1		Page 1 of 1	
MEDIA GATEWAY			
Number: 1	Registered? y		
Type: g350	FW Version/HW Vintage: 30 .10 .4 /3		
Name: G350	MGP IP Address: 192.168.150.201		
Serial No: 06IS48006975	Controller IP Address: 192.168.150.202		
Encrypt Link? y	MAC Address: 00:04:0d:f1:f8:31		
Network Region: 1	Location: 1		
Recovery Rule: none		Site Data:	
Slot	Module Type	Name	
V1:	S8300	ICC MM	
V2:	MM720	BRI MM	
V3:	MM712	DCP MM	
V4:	MM710	DS1 MM	
V5:	MM710	DS1 MM	
V6:	MM314	ETH 24P MM	
V7:	1T+2L-Integ-Analog	ANA IMM	
V8:			Max Survivable IP Ext: 8
V9:	gateway-announcements	ANN VMM	

Figure 17: Media-Gateway Form

Enable the announcement facility by entering the following command:

### **enable announcement-board v9**

Announcements can be created from an Avaya IP station which has a COS which has the **Console Permissions** parameter set to “y”.

change change cos	Page 1 of 2															
CLASS OF SERVICE																
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Auto Callback	n	y	y	y	y	n	y	n	y	n	y	n	y	n	y	n
Call Fwd-All Calls	n	y	y	y	y	n	n	y	y	n	n	y	y	n	n	y
Data Privacy	n	y	y	y	n	y	y	y	y	n	n	n	n	y	y	y
Priority Calling	n	y	y	y	n	n	n	n	n	y	y	y	y	y	y	y
Console Permissions	n	y	n	y	n	n	n	n	n	n	n	n	n	n	n	n
Off-hook Alert	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Client Room	n	y	n	y	n	n	n	n	n	n	n	n	n	n	n	n
Restrict Call Fwd-Off Net	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y	y
Call Forwarding Busy/DA	n	y	y	n	n	n	n	n	n	n	n	n	n	n	n	n
Personal Station Access (PSA)	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Extended Forwarding All	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Extended Forwarding B/DA	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Trk-to-Trk Transfer Override	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
QSIG Call Offer Originations	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Contact Closure Activation	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

**Figure 18: Announcement Creation Station COS Form**

A Feature Access code must be allocated to create an announcement.

change feature-access-codes	Page 1 of 8	
FEATURE ACCESS CODE (FAC)		
Abbreviated Dialing List1 Access Code:		
Abbreviated Dialing List2 Access Code:		
Abbreviated Dialing List3 Access Code:		
Abbreviated Dial - Prgm Group List Access Code:		
<b>Announcement Access Code: #01</b>		
Answer Back Access Code:		
Attendant Access Code:		
Auto Alternate Routing (AAR) Access Code:		
Auto Route Selection (ARS) - Access Code 1: 0	Access Code 2:	
Automatic Callback Activation:	Deactivation:	
Call Forwarding Activation Busy/DA: All:	Deactivation:	
Call Forwarding Enhanced Status: Act:	Deactivation:	
Call Park Access Code:		
Call Pickup Access Code:		
CAS Remote Hold/Answer Hold-Unhold Access Code:		
CDR Account Code Access Code:		
Change COR Access Code:		
Change Coverage Access Code:		
Conditional Call Extend Activation:	Deactivation:	
Contact Closure Open Code:	Close Code:	

**Figure 19: Announcement Access Code**

The announcements shown in the following table must be created, by dialing the announcement access code shown in **Figure 19** from a station which has “console permissions” enabled in its COS (see **Figure 18**), and speaking each announcement at the prompt.

Extension	Announcement Text
3921	“Welcome to the conference, please enter your conference code”
3922	“Please re-enter your conference code”
3923	“Your conference code was not recognized”
3924	“You are the first member of the conference”
3925	“The conference capacity has been exhausted”
3926	“There are already participants logged into the conference”

**Table 11: Conference Announcements**

Use the **change announcements** command to create announcement records on the physical medium, in this case the Avaya media gateway. The “Ext” value used is the extension which is to be assigned to the announcement. This can be any unused extension. Assign the “Type” to “integrated”. Any text value can be assigned to “Name”, as it is only used for informational purposes. The media gateway integrated announcement interface port should be assigned to “Group/Board”.

add announcement 3921		Page 1 of 1
ANNOUNCEMENTS/AUDIO SOURCES		
Extension: 3921	COR: 1	
Annc Name: welcome	TN: 1	
Annc Type: integrated	Queue? y	
Group/Board: 001V9		
Protected? n	Rate: 64	

Record the required announcements from the station which has the COS with console permission (Ext. 10172) via the following procedure:

- Dial the Announcement feature access code (#01), which was configured in **Figure 19**.
- Dial the extension of the announcement to be created.
- Dial 1
- Speak the announcement
- Dial #

Repeat this procedure for each of the announcements in **Table 11**.

### 4.5.2. Configure Meet-Me Conference Vector

Enter the **change vector** <n> command, where n is an unused vector using the parameters shown in the following form. The content of each of the announcements is shown in **Table 11**.

change vector 3		Page 1 of 6	
CALL VECTOR			
Number: 3		Name: conference	
		Meet-me Conf? y	Lock? y
Basic? y	EAS? y	G3V4 Enhanced? y	ANI/II-Digits? y
Prompting? y	LAI? n	G3V4 Adv Route? y	ASAI Routing? y
Variables? y	3.0 Enhanced? y	CINFO? y	BSR? y
			Holidays? y
01 collect	6	digits after announcement	3921
02 goto step	6	if digits	= meet-me-access
03 collect	6	digits after announcement	3922
04 goto step	6	if digits	= meet-me-access
05 disconnect		after announcement	3923
06 goto step	11	if meet-me-idle	
07 goto step	14	if meet-me-full	
08 announcement			3926
09 route-to		meetme	
10 stop			
11 announcement			3924
12 route-to		meetme	
13 stop			
14 disconnect		after announcement	3925

Figure 20: Meet-Me Conference Vector Form

### 4.5.3. Configure Meet-Me Conference Vector Directory Number

Enter the **add vdn** <n> command, where n is an unused extension using the parameters shown in the following table.

Parameter	Usage
Extension	Enter an unused extension contained within the dial plan.
Name	Enter an appropriate name to identify the station.
Destination	Enter the vector number to be used for the conference, defined in <b>Figure 20</b> .
Meet-me Conferencing	Enter “y”.
Conference Access Code	Enter an appropriate code to be used for the authorization of conference participants.
Conference Controller	Enter the extension of the station which controls the conference. This can be the extension of the Konftel 300W. This station has the ability to change the Conference Access code.

Table 12: Meet-Me Conference Vector Directory Number Parameters

add vdn 11003	Page 1 of 3
VECTOR DIRECTORY NUMBER	
Extension: 11003	
Name: Conference	
Destination: Vector Number	3
Meet-me Conferencing? y	
COR: 1	
TN: 1	

**Figure 21: Meet-Me Conference Vector Directory Number Form, Page 1**

add vdn 11003	Page 2 of 3
VECTOR DIRECTORY NUMBER	
MEET-ME CONFERENCE PARAMETERS:	
Conference Access Code: 123456	
Conference Controller: 10302	
Conference Type: 6-party	

**Figure 22: Meet-Me Conference Vector Directory Number Form, Page 2**

#### 4.5.4. Configure Meet-Me Conference Access Code Change Feature

Enter the **change feature-access-codes** command to configure the feature access code to be used to change the conference access code.

change feature-access-codes	Page 3 of 8
FEATURE ACCESS CODE (FAC)	
Leave Word Calling Send A Message:	
Leave Word Calling Cancel A Message:	
Limit Number of Concurrent Calls Activation:	Deactivation:
Malicious Call Trace Activation:	Deactivation:
<b>Meet-me Conference Access Code Change: *60</b>	
Message Sequence Trace (MST) Disable:	
PASTE (Display PBX data on Phone) Access Code:	
Personal Station Access (PSA) Associate Code:	Dissociate Code:
Per Call CPN Blocking Code Access Code:	
Per Call CPN Unblocking Code Access Code:	
Priority Calling Access Code:	
Program Access Code:	
Refresh Terminal Parameters Access Code:	
Remote Send All Calls Activation:	Deactivation:
Self Station Display Activation:	
Send All Calls Activation:	Deactivation:
Station Firmware Download Access Code:	

**Figure 23: Meet-Me Conference Access Code Change Sequence**

## 5. Configure Avaya R4 Base Stations

Although it is possible to use the Konftel 300W with a single Avaya R4 base station, two Avaya R4 base stations are included in the reference configuration, to allow the roaming abilities of the Konftel 300W to be tested.

In its un-configured state, the Avaya R4 base station is set to be a DHCP client. Thus, the MAC address of each base station to be included in the configuration should be entered into the DHCP server together with the IP address, network mask, and default gateway address which are to be assigned to that base station. The Avaya R4 base stations have an integrated HTTP server which allows the input of configuration parameters via a web browser.

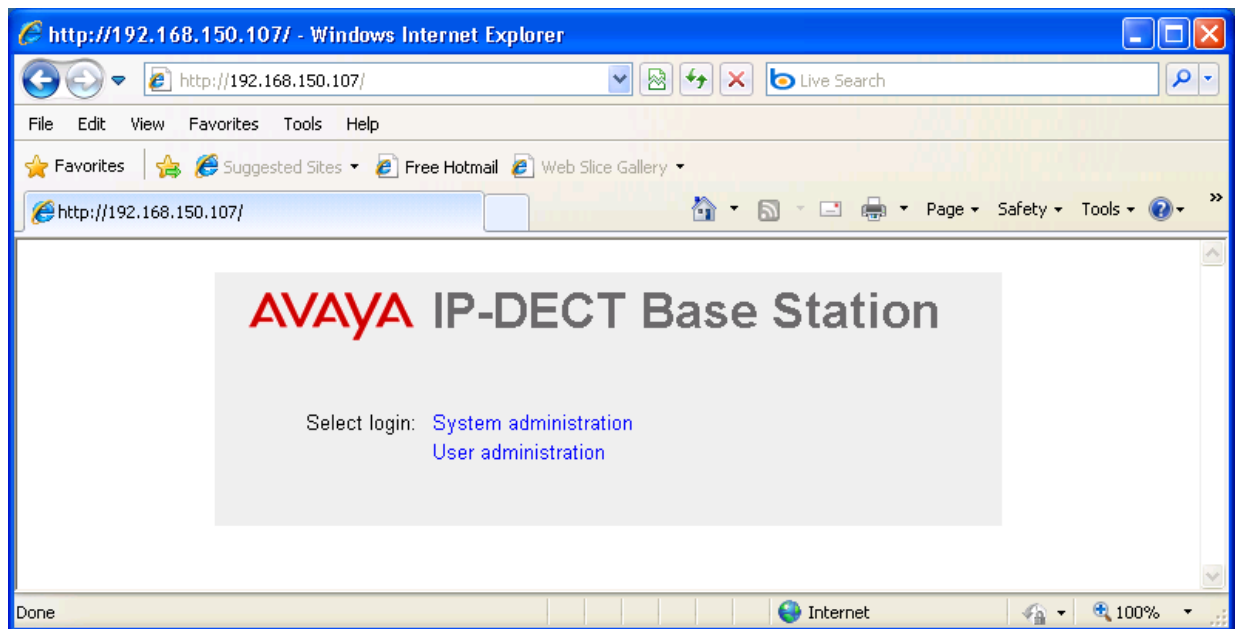
Each Avaya R4 base station consists of two independent components:

- A PBX interface component which has a trunk interface to the PBX and an IP interface to one or more radio components.
- A radio component which interfaces to the wireless endpoints via DECT and via IP interface to a Master base station containing an active PBX interface component.

The unit which serves as Master has an active PBX interface component and can also have an active radio component. Any additional base stations, hereafter referred to as Slave base stations, can extend radio coverage. Each has an active radio component which communicates with the Master via IP, and an inactive PBX interface component.

## 5.1. Configure Master Base Station

Enter the URL of the master base station into a web browser and select the “System administration” control.



**Figure 24: Master Base Selection**

Enter the appropriate credentials and click “OK”. For the first-time login, the default password is “changeme”. After initial login, this should be changed to an appropriate value, for security reasons.



**Figure 25: Master Base Station Login**

The initial display shows the **General->Info** tab, which contains version/hardware identification information.

The screenshot displays the Avaya IP-DECT Base Station configuration web interface. The top header features the Avaya logo and the title "IP-DECT Base Station". Below the header is a navigation bar with tabs: Info, Admin, Update, NTP, Logging, HTTP, HTTP Client, SNMP, and Certificates. The left sidebar contains a "Configuration" menu with options: General, LAN, IP, LDAP, DECT, UNITE, Administration, Users, Device Overview, Traffic, Backup, Update, Diagnostics, and Reset. The main content area shows the "Info" tab selected, displaying the following information:

<b>Version</b>	IPBS[3.2.8], Bootcode[3.0.26], Hardware[IPBS1-Y3/PB]
<b>Serial Number</b>	08AD49300063
<b>MAC Address (LAN)</b>	00-01-3e-01-56-d1
<b>SNTP Server</b>	0.0.0.0
<b>Time</b>	**.*.*.*.*
<b>Uptime</b>	1d 0h 5m 45s

Below the table, it indicates "RFP SW version 2.0.17".

**Figure 26: Master Base Station General -> Info Tab**

Select the **LAN->IP** tab. Verify that the IP parameters assigned to the base station correspond to those which are configured in the DHCP reservation.

**AVAYA** IP-DECT Base Station

Configuration: DHCP IP VLAN Link Statistics

General  
LAN  
IP  
LDAP  
DECT  
UNITE  
Administration  
Users  
Device Overview  
Traffic  
Backup  
Update  
Diagnostics  
Reset

		Active Settings
IP Address	192.168.0.1	192.168.150.107
Network Mask	255.255.255.0	255.255.255.0
Default Gateway		192.168.150.254
DNS Server		213.148.130.10
Alt. DNS Server		213.148.129.10
Check ARP	<input type="checkbox"/>	

OK Cancel

**Figure 27: Master Base Station LAN -> IP Tab**

Select the **General->Admin** tab. Enter the parameters shown in the following table and click “OK”.

Parameter	Usage
Device Name	Enter an appropriate name to identify the master base station.
User Name	Enter “admin”, the default administrator user name.
Password	Enter an appropriate password.

**Table 13: Master Base Station General -> Admin Tab Parameters**

**Figure 28: Master Base Station General -> Admin Tab**

Select the **DECT->Master** tab Enter the parameters shown in the following table and click “OK”.

Parameter	Usage
Mode	Select “Active” from the drop-down menu.
PBX	Select “ACM” from the drop-down menu.
Protocol	Select “H.323/XMobile” from the drop-down menu.

**Table 14: Master Base Station DECT -> Master Tab Parameters**

The screenshot shows the Avaya IP-DECT Base Station configuration interface. The 'Master' tab is selected. The left sidebar contains a 'Configuration' menu with options: General, LAN, IP, LDAP, DECT (highlighted), UNITE, Administration, Users, Device Overview, and Traffic. The main configuration area has tabs: System, Suppl. Serv., Master (selected), Trunks, Radio, Radio config, PARI, SARI, and Air Sync. The 'Master' tab contains the following fields: Mode (set to Active), IP-PBX (disabled), PBX (set to ACM), Protocol (set to H.323/XMobile), ARS Prefix, International CPN Prefix, and National CPN Prefix. The Mode, PBX, and Protocol fields are highlighted with red boxes. At the bottom are OK and Cancel buttons.

**Figure 29: Master Base Station DECT -> Master Tab**

Select the **DECT -> System** tab. Enter the parameters shown in the following table and click “OK”.

Parameter	Usage
System Name	Enter an appropriate name to identify this base station.
Password / Confirm	Enter an appropriate password for this base station.
Subscriptions	Select “With System AC” from the drop-down menu.
Authentication Code	Enter an appropriate code to be used by endpoints for registration authentication.
Frequency	Select “Europe” from the drop-down menu.
Coder	Select “G711A” from the drop-down menu.
Frame (ms)	Select “20” from the drop-down menu.

**Table 15: Master Base Station DECT -> System Tab Parameters**

**AVAYA IP-DECT Base Station**

Configuration: **System** | Suppl. Serv. | Master | Trunks | Radio | Radio config | PARI | SARI

**General**

System Name: Master

Password: [masked]

Confirm Password: [masked]

Subscriptions: With System AC

Authentication Code: 1234

Default Language: English

Frequency: Europe

Enabled Carriers: 0 1 2 3 4 5 6 7 8 9

Coder: G711A | Frame (ms): 20 | Exclusive ☐ SC ☐

OK Cancel

**Figure 30: Master Base Station DECT -> System Tab**

Select the **DECT->Trunks** tab. Enter the parameters shown in the following table and click “OK”.

Parameter	Usage
Name	Enter an appropriate name to identify this trunk.
Local Port	Enter the number of the local port which is read by this base station. This must be the same values assigned to “Far-end Listen Port” in <b>Figure 7</b> .
CS IP Address	Enter the IP assigned to the proc interface in <b>Figure 6</b> .
CS Port	Enter the number of the local port which is read by this base station. This must be the same values assigned to “Near-end Listen Port” in <b>Figure 7</b> .

**Table 16: Master Base Station DECT -> Trunks Tab Parameters**

**Figure 31: Master Base Station DECT -> Trunks Tab**

Select the **DECT->Radio** tab. Enter the parameters shown in the following table and click “OK”.

Parameter	Usage
Name	Enter the System Name assigned to this base station in <b>Figure 30</b> .
Password	Enter the password assigned to this base station in <b>Figure 30</b> .
Master IP Address	Enter the IP address assigned to this base station, as displayed by the “Active Settings” in <b>Figure 27</b> .

**Table 17: Master Base Station DECT -> Radio Tab Parameters**

**AVAYA** IP-DECT Base Station

Configuration: System, Suppl. Serv., Master, Trunks, **Radio**, Radio config, PARI

General, LAN, IP, LDAP, **DECT**, UNITE, Administration, Users, Device Overview, Traffic, Backup, Update, Diagnostics, Reset

Disable ☐

☐ Master

Name: Master

Password: .....

Master IP Address: 192.168.150.107

Standby Master IP Address:

Status: Connected to Master 192.168.150.107

Received Configuration

SARI: 31100243703343

RFPI: 9014BC2009

Subscriptions: With System AC

Authentication Code: 1234

Default Language: English

Frequency: Europe

Enabled Carriers: 0 1 2 3 4 5 6 7 8 9

Coder: G711A, 20 ms

OK Cancel

**Figure 32: Master Base Station DECT -> Radio Tab**

Select the **DECT->Air Sync** tab. Enter the parameters shown in the following table, click “OK”.

Parameter	Usage
Sync Mode	Select “Master” from the drop-down menu.

**Table 18: Master Base Station DECT -> Air Sync Tab Parameters**

The screenshot displays the Avaya IP-DECT Base Station configuration window. On the left is a sidebar with a 'Configuration' section containing 'General', 'LAN', 'IP', 'LDAP', 'DECT', 'UNITE', 'Administration', and 'Users'. The 'DECT' section is expanded. The main window has a title bar 'IP-DECT Base Station' and a series of tabs: 'System', 'Suppl. Serv.', 'Master', 'Trunks', 'Radio', 'Radio config', 'PARI', 'SARI', and 'Air Sync'. The 'Air Sync' tab is selected. Within this tab, there is a 'Sync Mode' dropdown menu set to 'Master', which is highlighted with a red rectangle. Below it are text input fields for 'Alien RFPI' and 'Alt. Alien RFPI', and a checkbox for 'LED Indication'. At the bottom of the configuration area are 'OK' and 'Cancel' buttons.

**Figure 33: Master Base Station DECT -> Air Sync Tab**

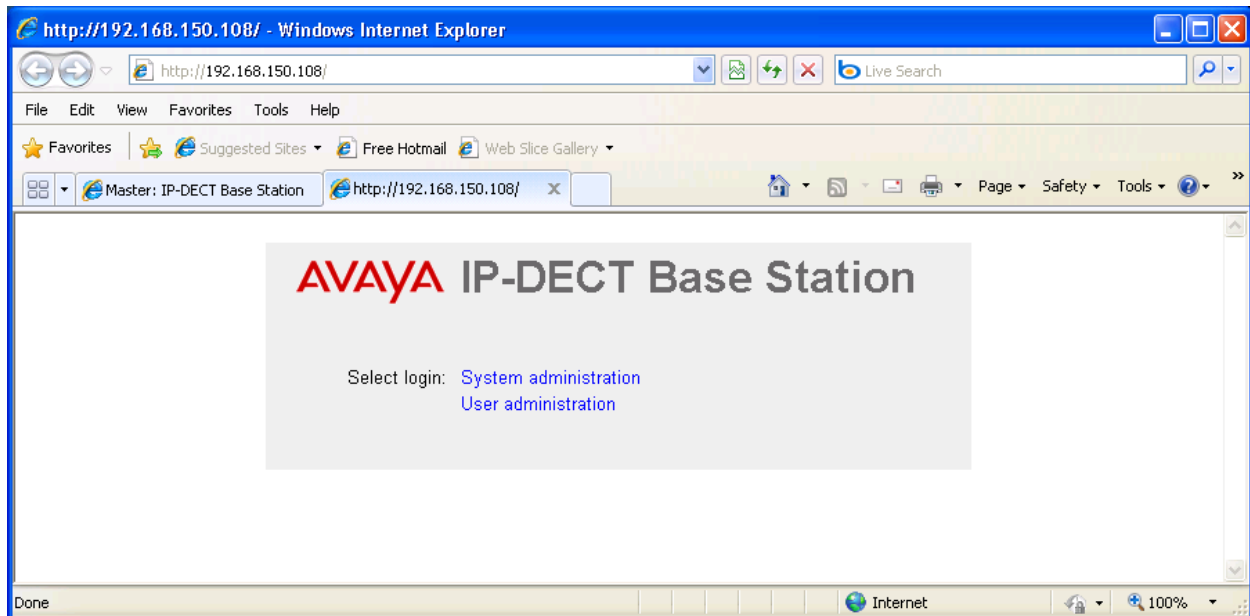
Select the **Reset->Idle-Reset** tab. Click “OK”.

The screenshot displays the Avaya IP-DECT Base Station configuration web interface. On the left is a navigation menu with categories: Configuration (General, LAN, IP, LDAP, DECT, UNITE) and Administration (Users, Device Overview, Traffic, Backup, Update, Diagnostics, Reset). The 'Reset' option is highlighted. At the top right, the title 'IP-DECT Base Station' is shown. Below the title are four tabs: 'Idle-Reset' (selected), 'Reset', 'TFTP', and 'Boot'. The main content area of the 'Idle-Reset' tab contains the text 'Reset only if the system is idle (no active calls, etc.)', an 'OK' button, and a red warning message: 'ETH0 DHCP Mode automatic! Click here to adjust'.

**Figure 34: Master Base Station Reset -> Idle-Reset Tab**

## 5.2. Configure Slave Base Station

Enter the URL of the slave base station into a web browser and select the “System Administration” control.



**Figure 35: Slave Base Selection**

Enter the appropriate credentials and click “OK”. For the first-time login, the default password is “changeme”.



**Figure 36: Slave Base Station Login**

The initial display shows the **General->Info** tab, which contains version/hardware identification information.

The screenshot displays the Avaya IP-DECT Base Station web interface. The top header features the Avaya logo and the title "IP-DECT Base Station". Below the header is a navigation bar with tabs: Info, Admin, Update, NTP, Logging, HTTP, HTTP Client, SNMP, and Certificates. The left sidebar contains a "Configuration" menu with options: General, LAN, IP, LDAP, DECT, UNITE, Administration, Users, Device Overview, Traffic, Backup, Update, Diagnostics, and Reset. The main content area shows the "Info" tab selected, displaying the following information:

<b>Version</b>	IPBS[3.2.8], Bootcode[3.0.26], Hardware[IPBS1-Y3/PB]
<b>Serial Number</b>	08AD49300031
<b>MAC Address (LAN)</b>	00-01-3e-01-56-47
<b>SNTP Server</b>	0.0.0.0
<b>Time</b>	**.*.*.*.*
<b>Uptime</b>	6d 5h 23m 41s
<b>RFP SW version 2.0.17</b>	

**Figure 37: Slave Base Station General -> Info Tab**

Select the **LAN->IP** tab. Verify that the IP parameters assigned to the base station correspond to those which are configured in the DHCP reservation. .

**AVAYA** IP-DECT Base Station

Configuration: DHCP IP VLAN Link Statistics

General  
LAN  
IP  
LDAP  
DECT  
UNITE  
Administration  
Users  
Device Overview  
Traffic  
Backup  
Update  
Diagnostics  
Reset

		Active Settings
IP Address	192.168.0.1	192.168.150.108
Network Mask	255.255.255.0	255.255.255.0
Default Gateway		192.168.150.254
DNS Server		213.148.130.10
Alt. DNS Server		213.148.129.10
Check ARP	<input type="checkbox"/>	

OK Cancel

**Figure 38: Slave Base Station LAN -> IP Tab**

Select the **General->Admin** tab Enter the parameters shown in the following table and click “OK”.

Parameter	Usage
Device Name	Enter an appropriate name to identify the slave base station.
User Name	Enter “admin”, the default administrator user name.
Password	Enter an appropriate password.

**Table 19: Slave Base Station General -> Admin Tab Parameters**

**AVAYA IP-DECT Base Station**

Configuration: Info Admin Update NTP Logging HTTP HTTP Client SNMP Certificates

**General**

LAN

IP

LDAP

DECT

UNITE

**Administration**

Users

Device Overview

Traffic

Backup

Update

Diagnostics

Reset

**Admin**

Device Name: Slave

User Name: admin

Password: ..... (A maximum of 15 characters are allowed.)

Confirm Password: .....

Password Policy

Minimum length: 8

Number of character types: 2

Number of previous passwords not allowed: 1

Do not allow repeated characters: ☐

Do not allow sequential characters: ☐

Additional Administrator and Auditor Accounts

User Name	Password (max 15 char)	Confirm Password	Role	Delete
			Administrator	<input type="checkbox"/>

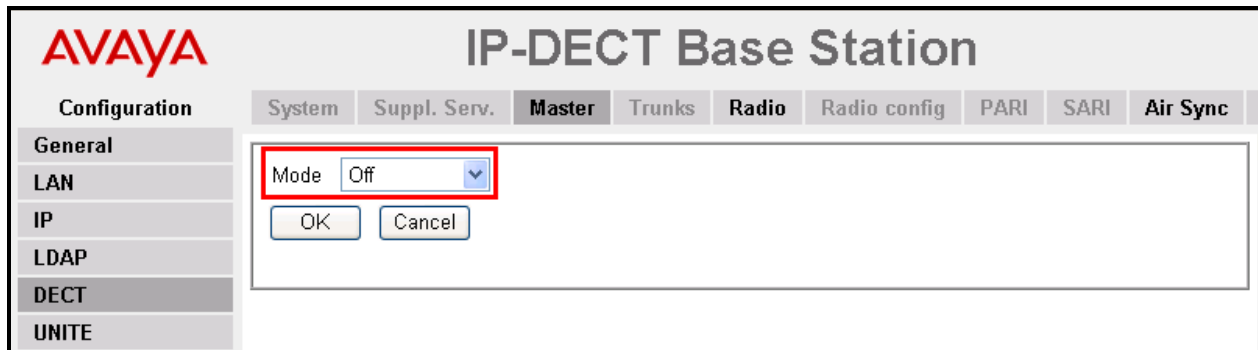
OK

**Figure 39: Slave Base Station General -> Admin Tab**

Select the **DECT->Master** tab Enter the parameters shown in the following table and click “ok”.

Parameter	Usage
Mode	Select “Off” from the drop-down menu.

**Table 20: Slave Base Station DECT -> Master Tab Parameters**



The screenshot shows the Avaya IP-DECT Base Station configuration interface. The 'Master' tab is selected in the top navigation bar. On the left, the 'Configuration' menu is open, showing options like General, LAN, IP, LDAP, DECT, and UNITE. The 'DECT' option is highlighted. In the main configuration area, the 'Mode' dropdown menu is set to 'Off' and is highlighted with a red rectangle. Below the dropdown are 'OK' and 'Cancel' buttons.

**Figure 40: Slave Base Station DECT -> Master Tab**

Select the **DECT -> System** tab. Enter the parameters shown in the following table and click “ok”.

Parameter	Usage
Name	Enter the System Name assigned to the master base station in <b>Figure 30</b> .
Password	Enter the password assigned to the master base station in <b>Figure 30</b> .
Master IP Address	Enter the IP address assigned to the master base station, as displayed by the “Active Settings” in <b>Figure 27</b> .

**Table 21: Slave Base Station DECT -> Radio Tab Parameters**

**AVAYA** IP-DECT Base Station

Configuration: System | Suppl. Serv. | **Master** | Trunks | **Radio** | Radio config

**General**  
 LAN  
 IP  
 LDAP  
 DECT  
 UNITE  
 Administration  
 Users  
 Device Overview  
 Traffic  
 Backup  
 Update  
 Diagnostics  
 Reset

Disable ☐

Master

Name: Master

Password: .....

Master IP Address: 192.168.150.107

Standby Master IP Address:

Status: Connected to Master 192.168.150.107

Received Configuration

SARI: 31100243703343

RFPI: 9014BC1008

Subscriptions: With System AC

Authentication Code: 1234

Default Language: English

Frequency: Europe

Enabled Carriers: 0 1 2 3 4 5 6 7 8 9  
☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒

Coder: G711A, 20 ms

OK Cancel

**Figure 41: Slave Base Station DECT -> Radio Tab**

Select the **DECT ->Air-Sync** tab Enter the parameters shown in the following table, click “ok”.

Parameter	Usage
Sync Mode	Select “Backup-Master” from the drop-down menu.

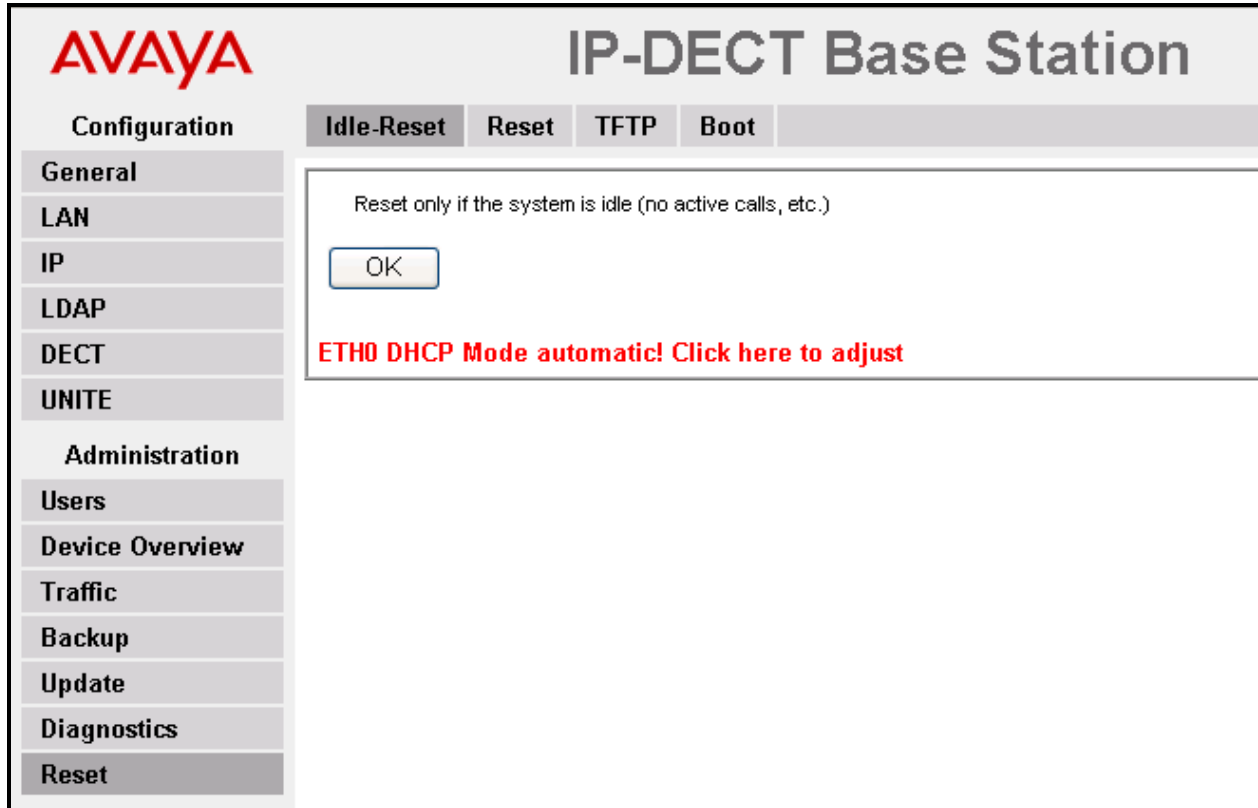
**Table 22: Slave Base Station DECT -> Air Sync Tab Parameters**

The screenshot shows the Avaya IP-DECT Base Station configuration window. The 'Air Sync' tab is selected in the top navigation bar. On the left, a sidebar lists configuration categories: Configuration, General, LAN, IP, LDAP, DECT, UNITE, Administration, and Users. The 'DECT' category is expanded. The main configuration area contains the following fields:

- Sync Mode:** A dropdown menu set to 'Backup Master'.
- Sync RFPI:** An empty text input field.
- Alt. Sync RFPI:** An empty text input field.
- LED Indication:** A checkbox that is checked.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

**Figure 42: Slave Base Station DECT -> Air Sync Tab**

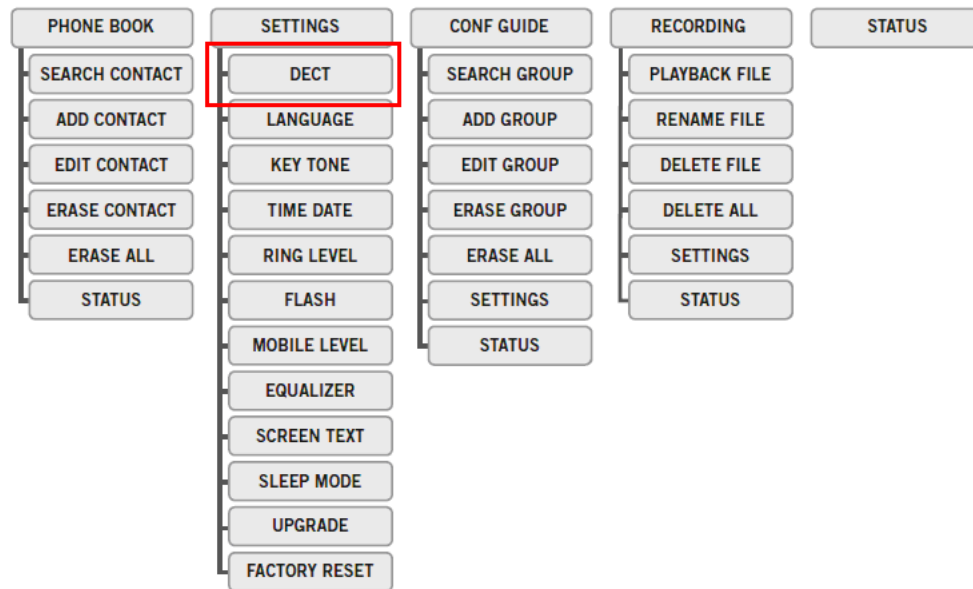
Select the **Reset->Idle-Reset** tab and click “OK”.



**Figure 43: Slave Base Station Reset -> Idle-Reset Tab**

## 6. Configure Konftel 300W

The Konftel 300W can be registered with an Avaya R4 base station via the “Menu” key shown in **Figure 1**. The initial depression of this key initiates menu mode, which provides access to the top level of the menu tree shown in the figure below. The “up arrow” and “down arrow” keys provide navigation at a given menu level, and the “OK” key descends into a menu branch. Depression of the “Menu” key while within the menu tree cancels menu mode.




**Figure 44: Konftel 300W Menu Hierarchy**

To register the 300W with an Avaya R4 base station, use the following key sequence:

- Press the “Menu” key.
- Push the “down” key to navigate to “SETTINGS”.
- Push the “OK” key to select “SETTINGS”.
- Push the “OK” key to select “DECT”.
- Push the “down” key to navigate to “REGISTER”.
- Push the “OK” key to select “REGISTER”.
- When prompted, enter the “Authentication Code” which was configured in **Figure 30**.
- Push the “MENU” key to exit the menu.

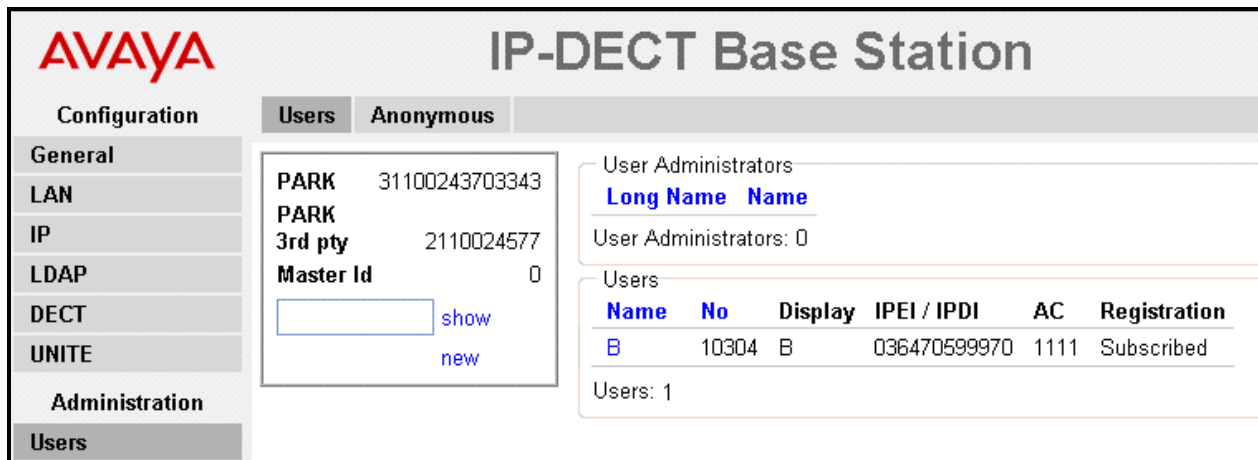
After the initial registration attempt, the Master base station will create an entry in its “Anonymous” user table. Note this entry and then click “Delete” and navigate to the “Users” tab.



AVAYA IP-DECT Base Station	
Configuration	Users Anonymous
General	040760044086 <a href="#">Delete</a>
LAN	

**Figure 45: Master Base Station Users -> Anonymous Tab**

Navigate to the Users -> Users tab and click “new”.



AVAYA IP-DECT Base Station													
Configuration	Users Anonymous												
General	<div> <div>PARK 31100243703343</div> <div>PARK 3rd party 2110024577</div> <div>Master Id 0</div> <div> <input type="text"/> <a href="#">show</a> <a href="#">new</a> </div> </div> <div> <div>User Administrators</div> <div> <a href="#">Long Name</a> <a href="#">Name</a> </div> <div>User Administrators: 0</div> </div> <div> <div>Users</div> <table border="1"> <thead> <tr> <th>Name</th> <th>No</th> <th>Display</th> <th>IPEI / IPDI</th> <th>AC</th> <th>Registration</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>10304</td> <td>B</td> <td>036470599970</td> <td>1111</td> <td>Subscribed</td> </tr> </tbody> </table> <div>Users: 1</div> </div>	Name	No	Display	IPEI / IPDI	AC	Registration	B	10304	B	036470599970	1111	Subscribed
Name	No	Display	IPEI / IPDI	AC	Registration								
B	10304	B	036470599970	1111	Subscribed								
LAN													
IP													
LDAP													
DECT													
UNITE													
Administration													
Users													

**Figure 46: Master Base Station Users -> Users Tab**

Enter the parameters show in the following table, click “OK”, and reset the Master base station.

Parameter	Usage
Long Name	Enter an appropriate to identify the Konftel 300W.
Number	Enter the extension from <b>Table 1</b> to be assigned to the Konftel 300W.
IPEI / IPDI	Enter the code from <b>Figure 45</b> .

**Table 23: Master Base Station New User Parameters**

User type

☒ User

☐ User Administrator

Long Name: Konftel

Display Name:

Number: 10302

IPEI / IPDI: 040760044086

Auth. Code:

OK Apply Cancel

**Figure 47: Master Base Station New User Screen**

Repeat the Konftel 300W registration procedure. The Konftel 300W should now register with the Master base station.

## 7. General Test Approach and Test Results

The compliance testing of Konftel 300W interoperating with Communication Manager was performed manually. The tests were functional in nature, and no performance testing was done. The following issues were encountered during testing:

1. Although the Konftel 300W automatic conference feature allows conferences to be created with up to five participants, Communication Manager restricts single line appearance telephones, such as the Konftel 300W, to create conferences with a maximum of two other participants. Alternatively, the Communication Manager “meet-me” conference feature described in **section 4.5** can be used to establish conferences with up to six participants.
2. It is not possible to un-register the Konftel 300W from the DECT base station using the “De-register” function: the Konftel 300W responds with “NOT SUPPORTED” when this feature is selected.

With the exception of the above-described problems, all tests which were performed produced the expected result. **Section 1.1** contains a list of tests which were performed.

## 8. Verification Steps

The correct installation and configuration of 300W can be verified by performing the steps shown below.

### 8.1. Verify Avaya Aura™ Configuration

Enter the “status signaling-group” command from the Communication Manager SAT terminal and verify that the signaling group is in the “in-service” state.

```
status signaling-group 8
                        STATUS SIGNALING GROUP

      Group ID: 8                Active NCA-TSC Count: 0
      Group Type: h.323          Active CA-TSC Count: 0
      Signaling Type: facility associated signaling
      Group State: in-service
```

**Figure 48: Signaling Group Status**

Enter the “status trunk” command from the Communication Manager SAT terminal and verify that the all of the trunk members are in the “in-service/idle” state.

```
status trunk 8
```

TRUNK GROUP STATUS				
Member	Port	Service State	Mtce Connected Ports	Busy
0008/001	T00019	<b>in-service/idle</b>	no	
0008/002	T00020	<b>in-service/idle</b>	no	
0008/003	T00021	<b>in-service/idle</b>	no	
0008/004	T00022	<b>in-service/idle</b>	no	
0008/005	T00023	<b>in-service/idle</b>	no	
0008/006	T00024	<b>in-service/idle</b>	no	
0008/007	T00025	<b>in-service/idle</b>	no	
0008/008	T00026	<b>in-service/idle</b>	no	
0008/009	T00027	<b>in-service/idle</b>	no	
0008/010	T00028	<b>in-service/idle</b>	no	

**Figure 49: Trunk Status**

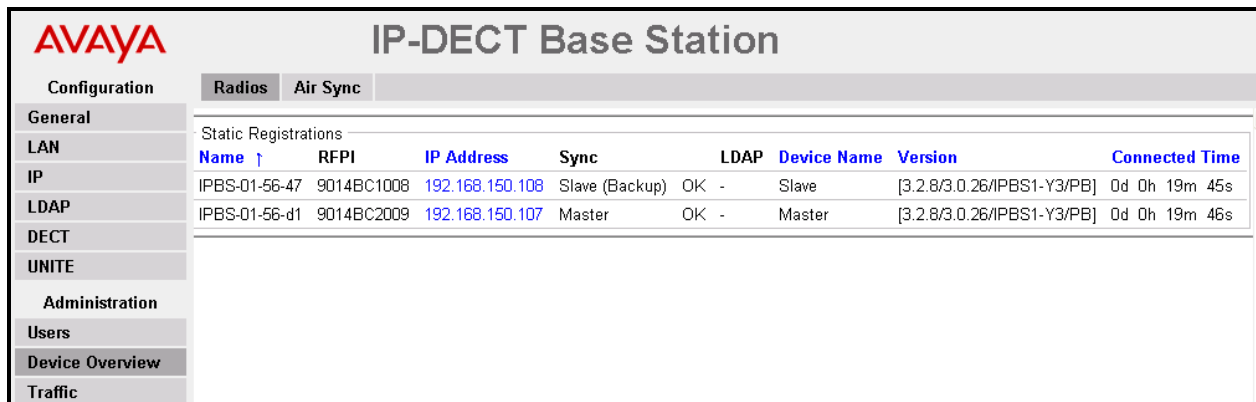
If meet-me conferencing has been configured, the configuration can be verified by changing the conference access code from the Konftel 300W, by performing the following steps from the Konftel 300W:

Dial Sequence	Response
Dial the Meet-me Conference Feature Access Code defined in <b>Figure 23</b>	Dial tone
Dial the conference bridge VDN defined in <b>Figure 21</b> followed by “#”.	Silence
Dial the current Access Code defined in <b>Figure 22</b> followed by “#”.	Dial tone
Dial the Access Code followed by “#”.	Dial tone
Dial NEW Access Code again followed by “#”.	Confirmation tone

**Table 24: Dial Sequence for Changing Conference Access Code**

## 8.2. Verify Avaya R5 Master Base Station Configuration

From the Avaya R4 DECT base station, the **Device Overview** -> **Radios** tab should show registrations for the both the Master and Slave base stations.



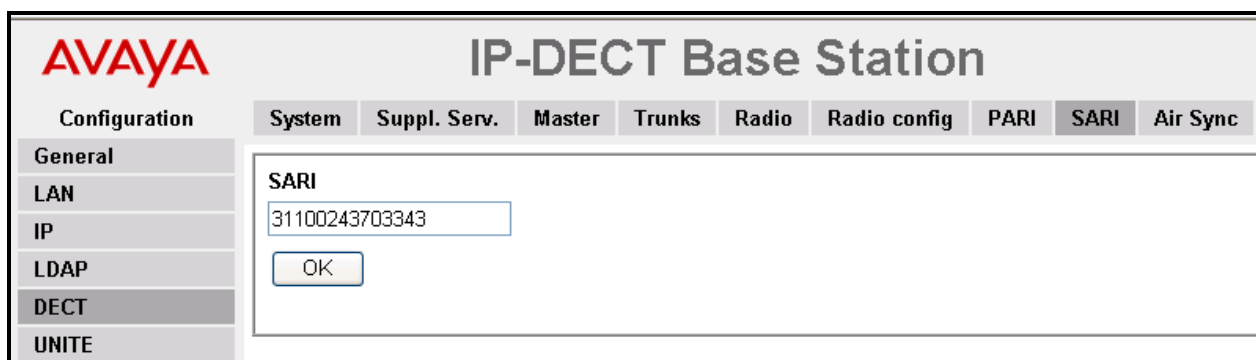
Static Registrations							
Name	RFPI	IP Address	Sync	LDAP	Device Name	Version	Connected Time
IPBS-01-56-47	9014BC1008	192.168.150.108	Slave (Backup)	OK -	Slave	[3.2.8/3.0.26/IPBS1-Y3/PB]	0d 0h 19m 45s
IPBS-01-56-d1	9014BC2009	192.168.150.107	Master	OK -	Master	[3.2.8/3.0.26/IPBS1-Y3/PB]	0d 0h 19m 46s

Figure 50: Master Base Station Radio Status

## 8.3. Verify Konftel 300W Configuration

To verify that the Konftel 300W is registered with one of the Avaya R4 base stations:

- Press the “Menu” key.
- Push the “down” key repeatedly to navigate to “STATUS”.
- Push the “OK” key to select “STATUS”.
- Push the “down” key repeatedly to navigate to “IPEI/PARK”
- Verify that the first seven digits of the PARK are identical to the first seven digits of master base station SARI.



IP-DECT Base Station									
Configuration	System	Suppl. Serv.	Master	Trunks	Radio	Radio config	PARI	SARI	Air Sync
General	SARI								
LAN	<input type="text" value="31100243703343"/>								
IP	<input type="button" value="OK"/>								
LDAP									
DECT									
UNITE									

Figure 51: Master Base Station SARI

## 9. Conclusion

These Application Notes contain instructions for configuring a solution with Communication Manager, the Konftel 300W, and the Avaya R4 base stations. A list of instructions is provided to enable the user to verify that the various components have been correctly configured.

## 10. Additional References

This section references documentation relevant to these Application Notes. The Avaya product documentation is available at <http://support.avaya.com>.

- [1] *Administering Avaya Aura™ Communication Manager*, January 2009, Document Number 03-300509.
- [2] *Avaya Aura™ Communication Manager Feature Description and Implementation*, May 2009, Document Number 555-245-205.
- [3] *Avaya DECT R4 Installation and Administration Manual*, August 2009, Document Number 21-603363.
- [4] *Konftel 300W Quick Reference Guide*: 110090-61-001, Rev 1b

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