



**Avaya Solution & Interoperability Test Lab**

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## **Application Notes for Konftel 300 Conference Unit with Avaya IP Office - Issue 1.0**

### **Abstract**

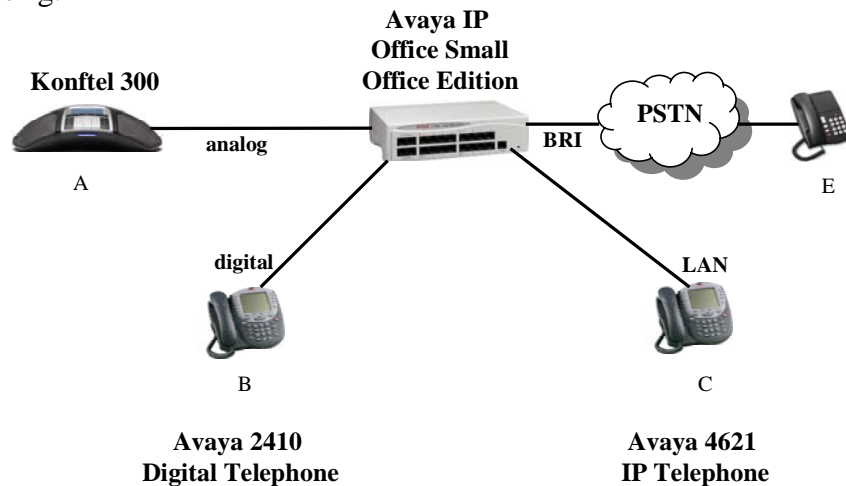
These Application Notes document the steps for configuring the Konftel 300 conference unit with Avaya IP and digital telephones controlled by Avaya IP Office. The Konftel 300 attaches to an analog station port of Avaya IP Office and enables meeting or conference participants to participate simultaneously in a telephone conversation.

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 these Application Notes is to illustrate how the Konftel 300 conference unit can be used within a telephone system consisting of Avaya IP and digital telephones controlled by Avaya IP Office. The Konftel conference unit attaches to an Avaya IP Office analog station port, and contains a microphone and loudspeaker which effectively extend the range from which the telephone can be used to include an area of 30 square meters. Placed within a conference room, the Konftel unit enables all of the participants in the room to take part in a telephone conversation. The unit also performs echo cancellation to avoid feedback problems which might otherwise occur.

This document details the compliance testing with Konftel units, including the test configuration, test procedure, and the test results. **Figure 1** below depicts the configuration used for compliance testing.



**Figure 1: Test Configuration**

The Avaya IP Office Small Office Edition was used for testing. The Avaya telephones and the Konftel 300 were located at physically separate locations to ensure that sound from the test location could not be heard other than via the telephone connection.

**Table 1** contains additional information about each of the telephone endpoints contained in **Figure 1**:

Diagram	Ext	PSTN Number	Endpoint
A	2001	069 9073 9886 2001	Konftel 300
B	2002		Avaya 2410
C	2003		Avaya 4621
E		069 7505 6176	ISDN telephone

**Table 1: Extensions Used for Testing**

The Konftel 300 has a keypad/display, as shown in **Figure 2**.



**Figure 2: Konftel 300 Keypad /Display**

The “hold” key alternately blocks/unblocks audio signals in both directions, but the Konftel 300 does not send an indication to Avaya IP Office that the “hold” key has been depressed. Consequently, the “hold” key cannot be used to initiate transfer/conference operations. The “off-hook/flash” key must be used for this purpose, in the same manner as the “flash” key is used for Avaya analog telephones: when the Konftel is in the “off hook” state, depression of the “off-hook/flash” key causes the Konftel 300 to send a “flash” signal to Avaya IP Office.

## 2. Equipment and Software Validated

The following equipment and software were used for the test configuration:

Equipment	Software Version
Avaya IP Office	4.1(9)
Avaya 2410 Digital Telephone	5.0
Avaya 4621 IP Telephone	2.8.3
Konftel 300	1.8.469 EU

**Table 2: Version Numbers of Equipment and Software**

## 3. Configuration of Avaya IP Office

The configuration and verification operations illustrated in this section were performed using the Avaya IP Office Manager program.

The configuration of the interface to the PSTN is outside the scope of this document.

### 3.1. Configure Interface to Konftel

Use the **add station <x>** command to allocate a station for the Konftel 300 where <x> is the extension for the Konftel unit as shown in **Table 1**. Administer the station parameters as indicated in **Table 3**. **Figures 3** and **4** show the Analogue Extension forms for the station used by the Konftel 300 in the compliance testing.

Tab	Parameter	Usage
Extn	Base Extension	Enter the extension to be assigned to the Konftel 300, as shown in <b>Table 1</b> .
Analogue	Hook Persistence	Select 100ms from the drop-down menu.

**Table 3: Configuration of Konftel Station**

The screenshot shows a software window titled "Analogue Extension: 9 2001". The window has a blue header bar with a menu icon on the left and standard window controls (minimize, maximize, close, OK, Cancel, Help) on the right. Below the header, there is a tab labeled "Extn" and a sub-tab labeled "Analogue". The main content area contains several form fields:

- Extension Id: 9
- Base Extension: 2001 (highlighted with a red border)
- Caller Display Type: On (dropdown menu)
- Device type: Analogue Handset (with a telephone handset icon)
- Module: BP
- Port: 1

At the bottom right of the window, there are three buttons: "OK", "Cancel", and "Help".

**Figure 3: Konftel Analogue Extension Form – Extn Tab**

Analogue Extension: 9 2001

Extn Analogue

Equipment Classification

- Quiet Headset
- Paging Speaker
- Standard Telephone
- Door Phone 1
- Door Phone 2
- IVR Port

Flash Hook Pulse Width

Use System Defaults

Minimum Width 20 ms

Maximum Width 500 ms

Message Waiting Lamp Indication Type

None

Hook Persistency 100 ms

OK Cancel

**Figure 4: Konftel Analogue Extension Form – Analogue Tab**

## 4. Configuration of the Konftel Units

The Konftel 300 can be configured via the “Menu” key on its keypad, as shown in **Figure 2**. Use the “Line Mode” key to select “ANALOGUE” mode.

Testing with Avaya IP Office was done with a flash value of 400ms. The Konftel 300 flash duration can be configured via its keypad via the following sequence:

- Press the “Menu” key.
- Push the “down” key to select “SETTINGS”.
- Push the “OK” key.
- Push the “down” key repeatedly to select “FLASH/R”.
- Push the “OK” key.
- Push the “up” and “down” keys as required to select the desired flash time value (60ms – 600ms).
- Push the “OK” key to select the desired flash time.
- Push the “MENU” key to exit the menu.

## 5. Verification Steps

- Use the Konftel 300 to make a call to another extension. Verify that both parties can hear each other well.
- Verify that the Konftel 300 can initiate transfer and conference operations using its “flash” key.
- Verify that the keypad keys on the Konftel 300 can be used to navigate the menu of a voice mail system or other service.
- Verify that Konftel 300 can redial numbers using the “Last Number Dialed” access code”.
- Verify that Konftel 300 can activate/deactivate voicemail coverage via the “Send All Calls Activation/Deactivation” access codes.

## 6. Support

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

## 7. Conclusion

The Konftel 300 conference unit can be attached to an Avaya IP Office analog station port to enable those present in a room to participate in a telephone conversation. The configuration described in these Application Notes has been successfully compliance tested.

## 8. Additional References

- [1] *Administrator Guide for Avaya IP Office*, February 2007, Issue 3, Document Number 03-300509.
- [2] *Feature Description and Implementation for Avaya IP Office*, February 2007, Issue 5, Document Number 555-245-205.
- [3] *2410 Digital Telephone User's Guide, Release 5*, 16-300133, March 2007.
- [4] *4620/4620SW/4621SW IP Telephone R2.2 User's Guide*, 555-233-781, April 2005.



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