



Application notes for Algo 3226 Trunk Port FXO Doorphone with Avaya IP Office Release 7.0 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Algo 3226 Trunk Port FXO Doorphone to interoperate with Avaya IP Office Release 7.0. The Algo 3226 Trunk Port FXO Doorphone is a device that can integrate into the Avaya IP Office and enable conversations and remote entry using door release features.

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 explain the configuration required on the Algo 3226 Trunk Port FXO Doorphone (hereafter referred to as 3226) and Avaya IP Office (hereafter referred to as IPO) to interoperate successfully. The 3226 is a security intercom solution for business and residential operations. Visitors cause a telephone on the IPO to ring which enables conversations when answered and the capability to allow remote entry using door release features.

2. General Test Approach and Test Results

The focus of this interoperability compliance testing was to verify if the 3226 controller can integrate into the IPO Analog Trunk module and enable a telephone on the IPO to ring when activated from the 3226 Doorphone.

2.1. Interoperability Compliance Testing

Compliance testing verified that the 3226 was able to interoperate with the telephones residing on the IPO system. The following interoperability areas were covered:

- 3226 Doorphone can successfully ring a telephone on the IPO and ensure two way speech paths.
- Telephones on the IPO can seize the analog trunk and open a conversation with the 3226 Doorphone.
- Telephones on the IPO can send required DTMF tones and therefore ensure the remote door release features work successfully.

2.2. Test Results

The objectives outlined in **Section 2.1** were verified and met. All tests were executed and passed.

2.3. Support

For technical support on Algo 3226, please contact Algo technical support team:

- **Telephone:** 1-877-884-2546
- **Email:** support@algosolutions.com
- **Web Site:** <http://www.algosolutions.com/3226>

3. Reference Configuration

Figure 1 illustrates the test configuration used during the compliance testing event between Avaya IPO and Algo 3226.

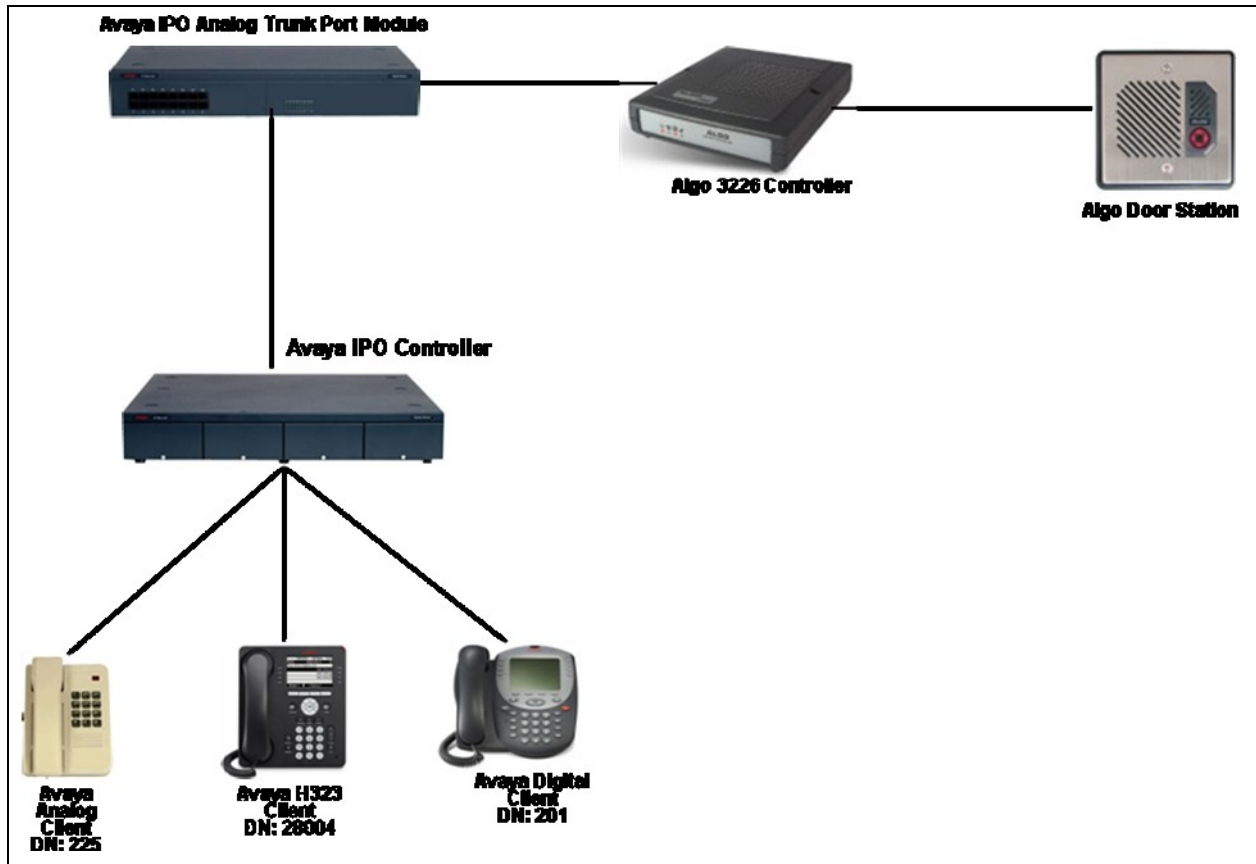


Figure 1: Test Solution Configuration.

4. Equipment and Software Validated

| Equipment | Software/Firmware |
|---|--|
| Avaya IPO 500v2 | SW Version : 7.0(5) |
| Avaya IPO Analog Trunk Expansion Module | SW Version : 9.0(5) |
| Avaya Telephones: <ul style="list-style-type: none"> o Analog o 9608 (H323) o 2408 (Digital) | <ul style="list-style-type: none"> o NA o 6.1(S9608_11HALBR6_1r28_V4r52) o NA |
| Algo 3226 Controller and Door Station | FW Version : 1.01 |

5. Configuring the Avaya IPO

This section describes the steps to configure IPO to interoperate with the 3226. Assumption is made that the IPO Controller and Analog Trunk expansion module are installed successfully. For additional information on IPO installation and configuration refer to **Section 9[1]**.

Here is a summary of IPO Configuration:

- Configuring an analog trunk line.
- Configuring an extension and user.
- Assigning line to a user.
- Configuring incoming call route.

5.1. Configuring an Analog Trunk Line

This section explains the steps to configure an Analog Trunk Line. Open the IPO Manager by navigating to **Start > Programs > IP Office > Manager** on the server the IPO Manager is installed on (not shown).

Figure 2 below shows the IPO Manager with 16 Analog Trunk Lines under the **Line** tree view. During compliance testing Line **201** was used. In the **Line Settings** tab for Line **201**, populate the fields for *Telephone Number*, *Incoming/Outgoing Group ID*, *Line Appearance ID* and *Admin*. During compliance testing the *Line Appearance ID* of *241* was configured.

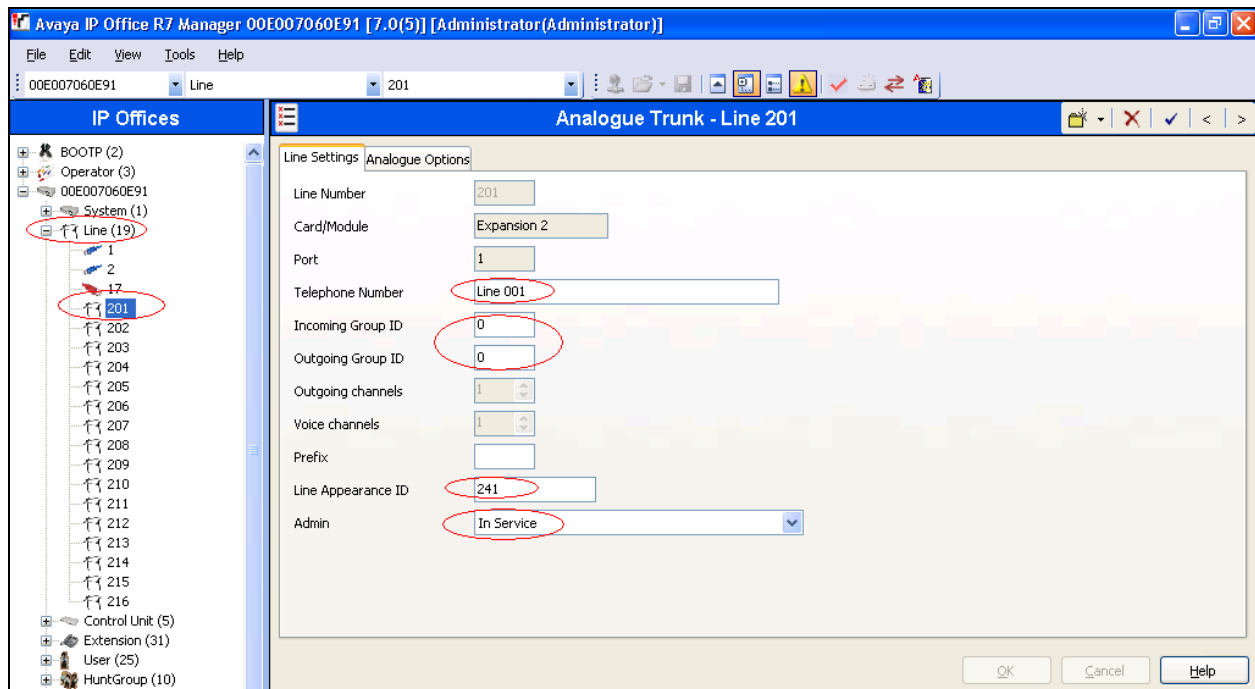


Figure 2: Line Settings Tab Configuration

Figure 3 below shows the values under the **Analogue Options** tab of Line 201. Click on **OK** to complete the configuration.

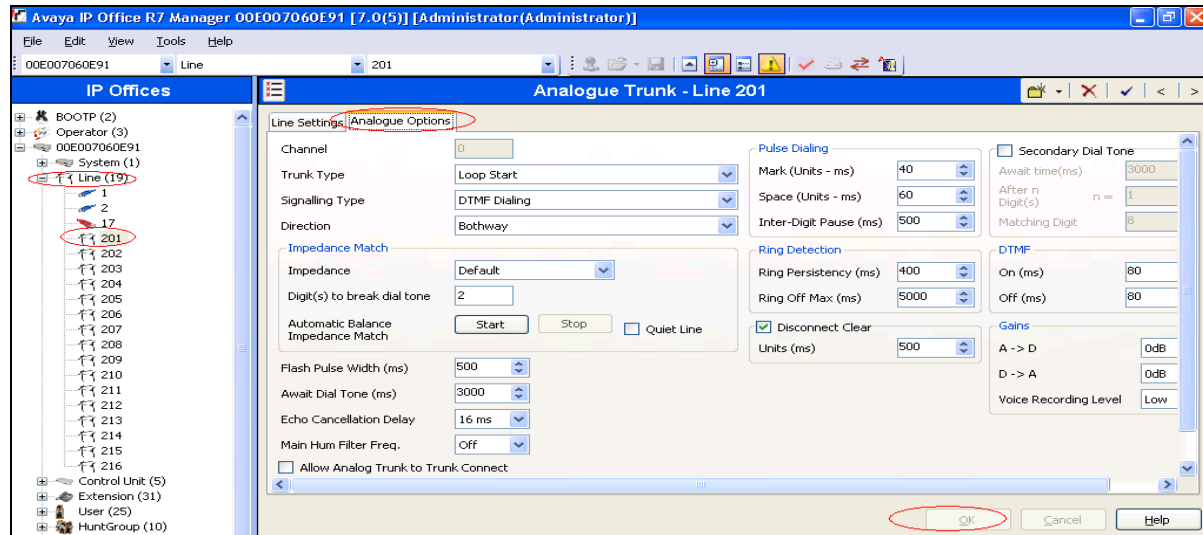


Figure 3: Analogue Options Tab Configuration

5.2. Configuring an Extension and User

This section explains the steps to add an extension and assign a user to that extension. During compliance testing a digital telephone was used which would ring when the 3226 Door Station button was pressed.

Figure 4 below shows expanded tree view of **Extension**. For compliance testing, Extension ID **102** was selected. In the **Extn** tab populate the *Base Extension* field and leave the rest of the values at default. Click on **OK** to complete the configuration.

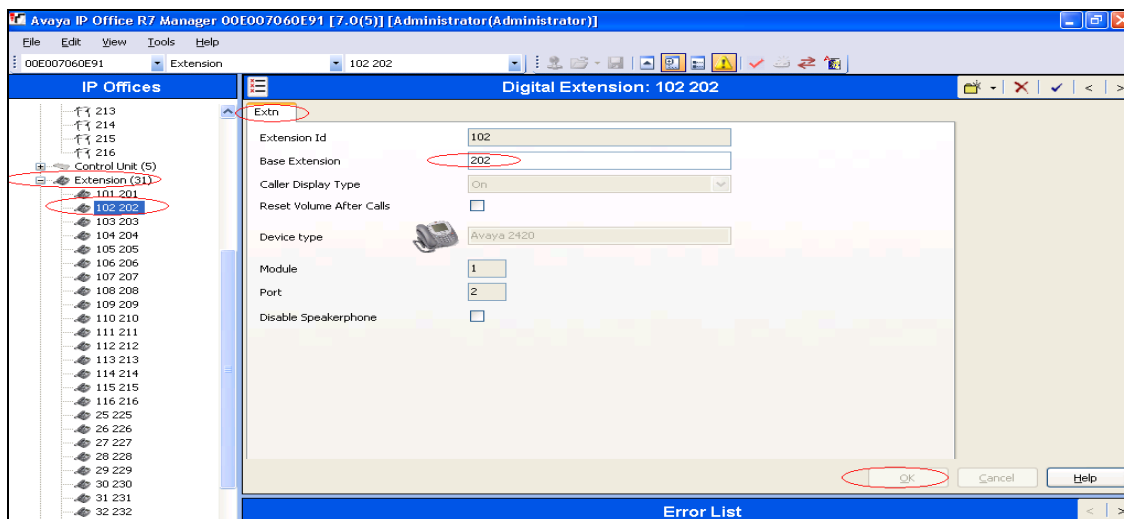


Figure 4: Analogue Options Tab Configuration

To add a user, right click on **User** from the left hand window pane of the IPO Manager as shown in **Figure 5** below and select **New**.

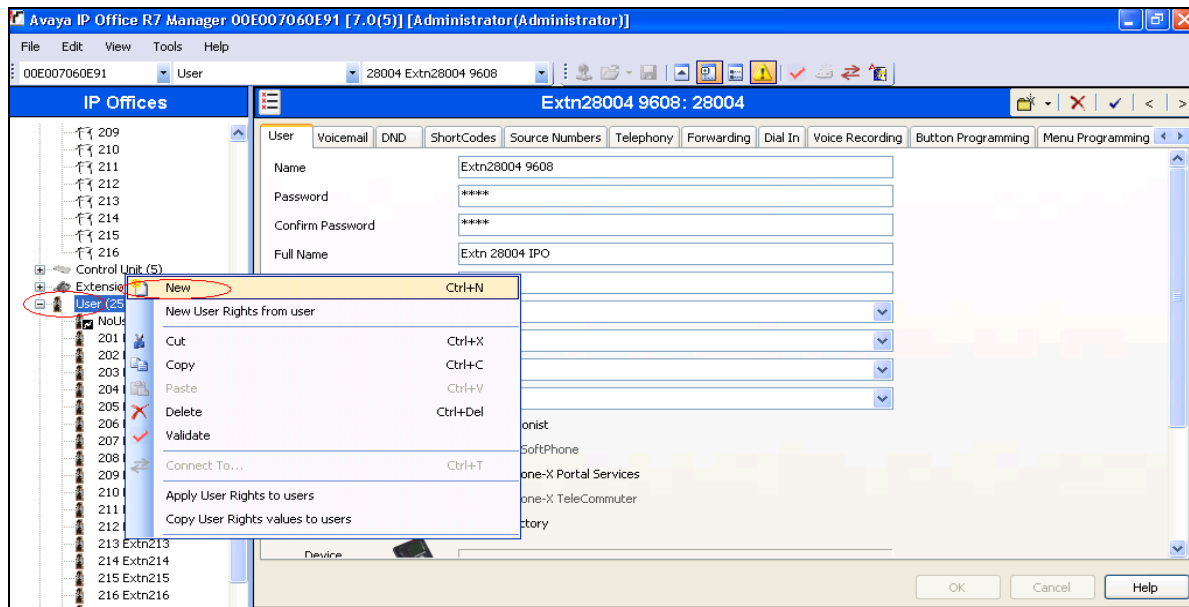


Figure 5: Adding new User

In the **User** tab, populate the *Name*, *Full Name* and *Extension* fields as shown in **Figure 6** below. The value of 202 in the *Extension* field is based on the configuration as explained in **Figure 4** above. Click on **OK** to complete the configuration.

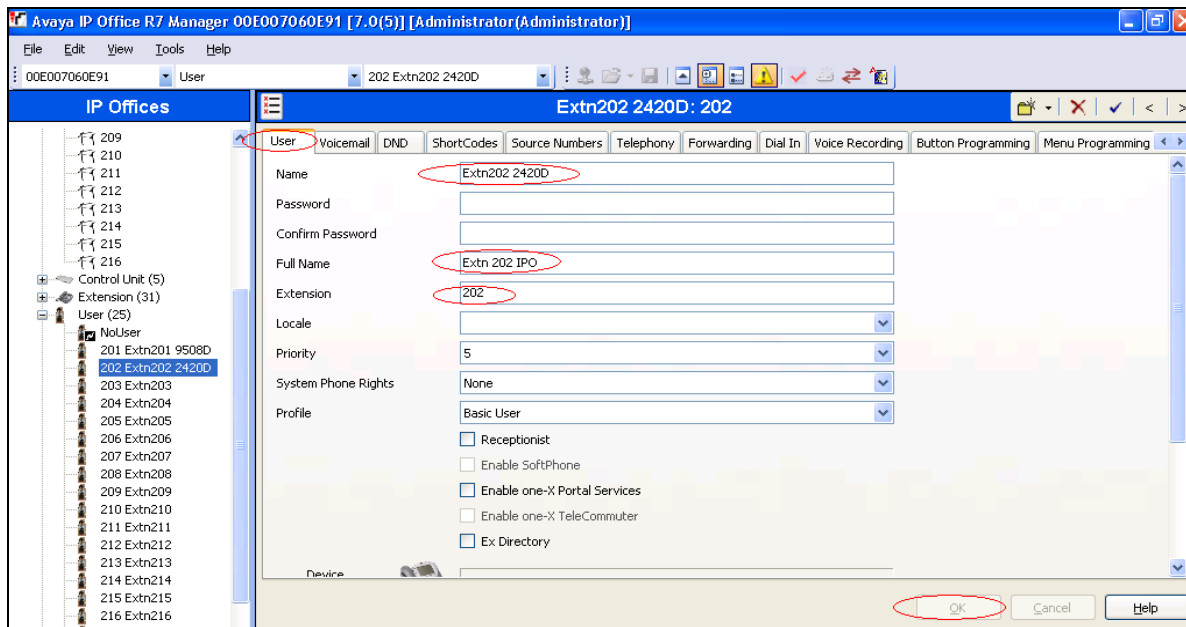


Figure 6: Configuring User values

5.3. Assigning Line to a User

This section explains the steps of assigning the trunk line that was configured in Section 5.1 to the user that was added in Section 5.2.

Figure 7 below shows the **Button Programming** tab of the **User** that was added as shown in Figure 6 above. Select a button (in this example 5 was chosen) and double click on the same. Select **Appearance > Line Appearance**.

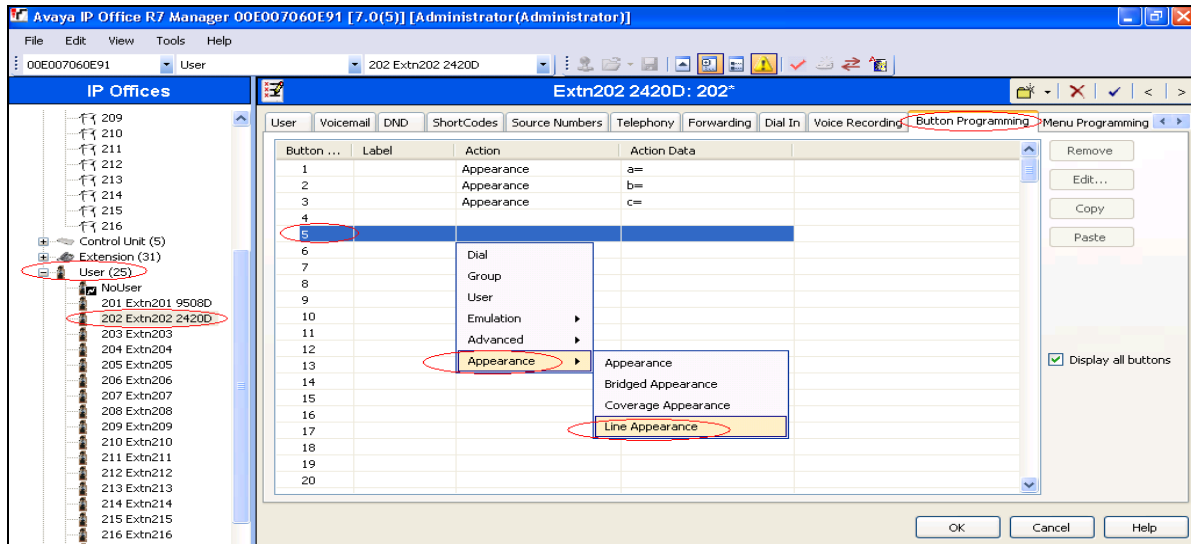


Figure 7: Configuring Line Appearance

Figure 8 shows Line 241 as configured in Section 5.1 being assigned to the User 202. That was configured in Section 5.2. Click OK to complete the configuration.

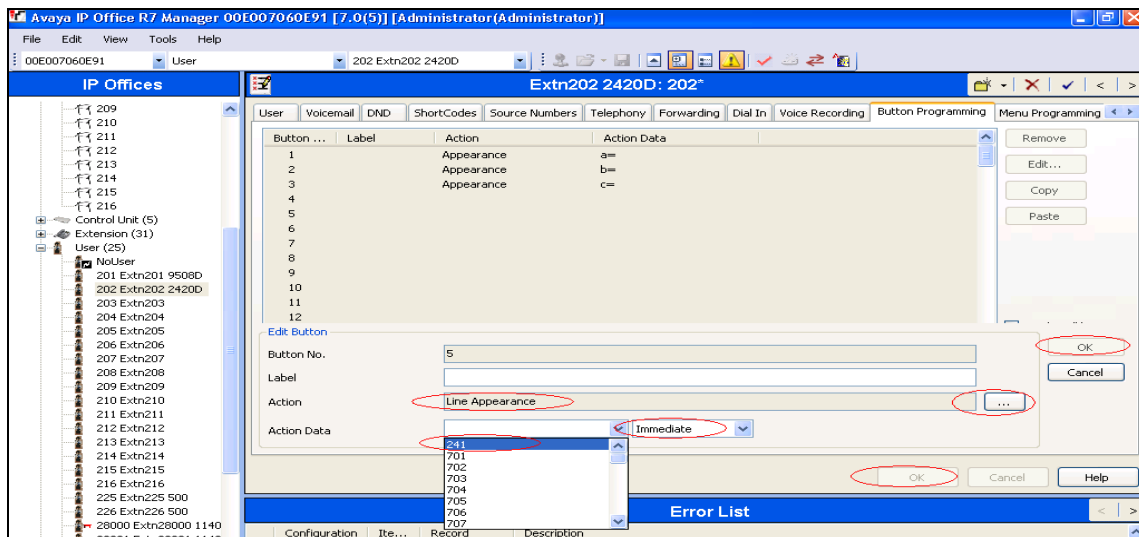


Figure 8: Assigning Line to User

5.4. Configuring Incoming Call Route

This section explains the steps that are required to configure an incoming route to the telephone that will ring when the 3226 Doorphone button is pressed.

To add a new incoming route, right click on the **Incoming Call Route** from the left hand window pane of the IPO Manager as shown in **Figure 9** below. Select **New**.

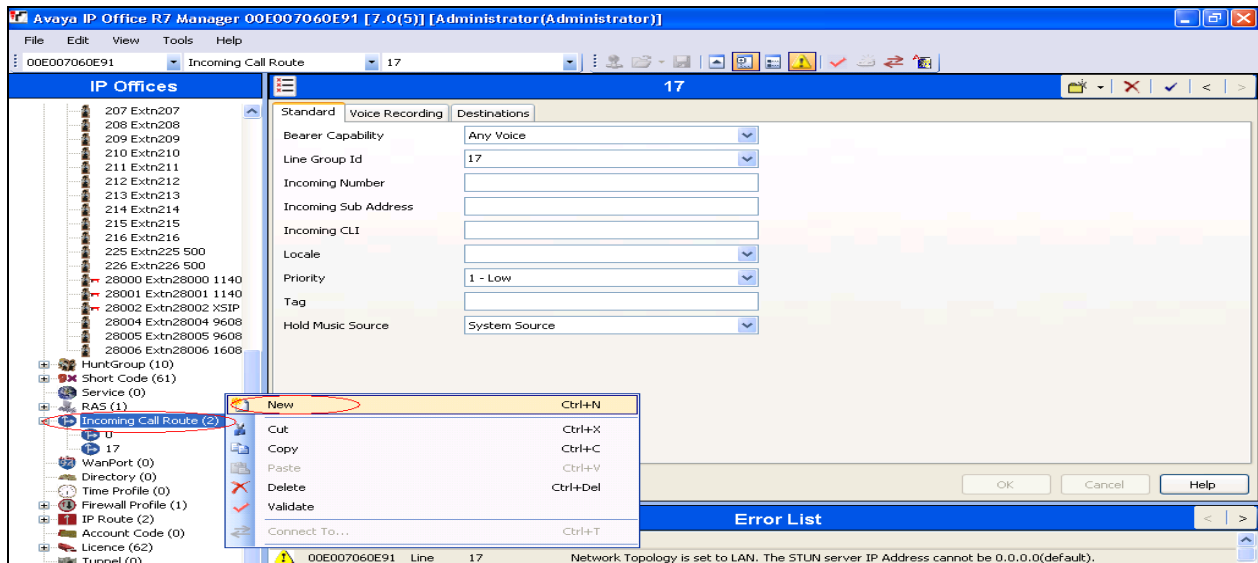


Figure 9: Adding a new Incoming Route

Figure 10 below shows the configuration of the Incoming Route. In the **Standard** tab select the *Line Group ID* as *0*. Note that this is the same *Incoming Group ID* configured in **Figure 2** above during configuration of Analog Trunk Line.

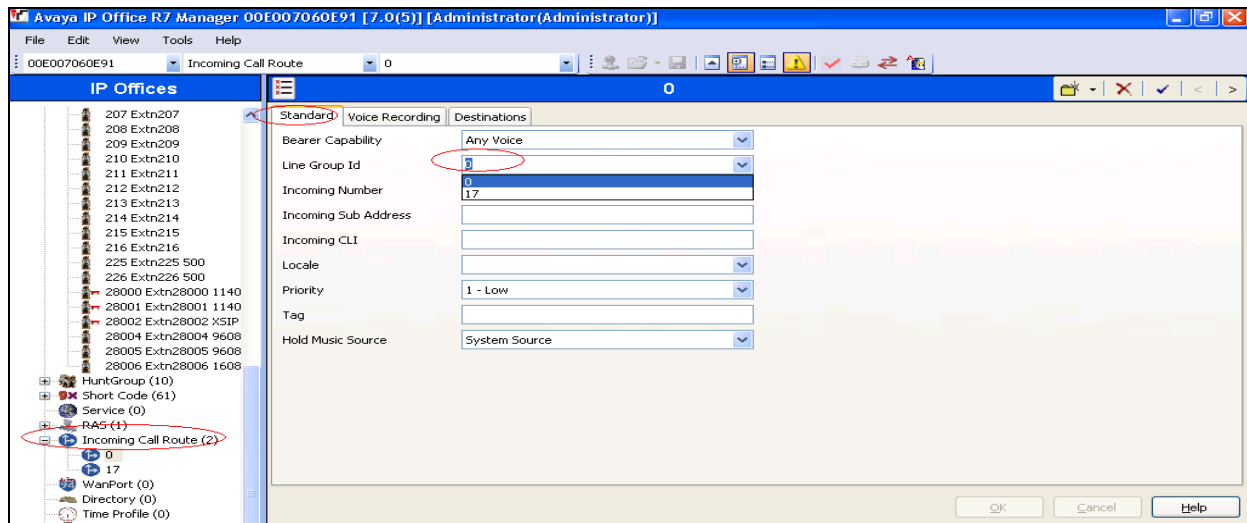


Figure 10: Selecting the Line Group ID

Figure 11 below shows the User telephone 202 being selected as the destination telephone for the incoming call. The User can be selected from the **Destinations** tab. Click on **OK** to complete the configuration of the **Incoming Call Route**.

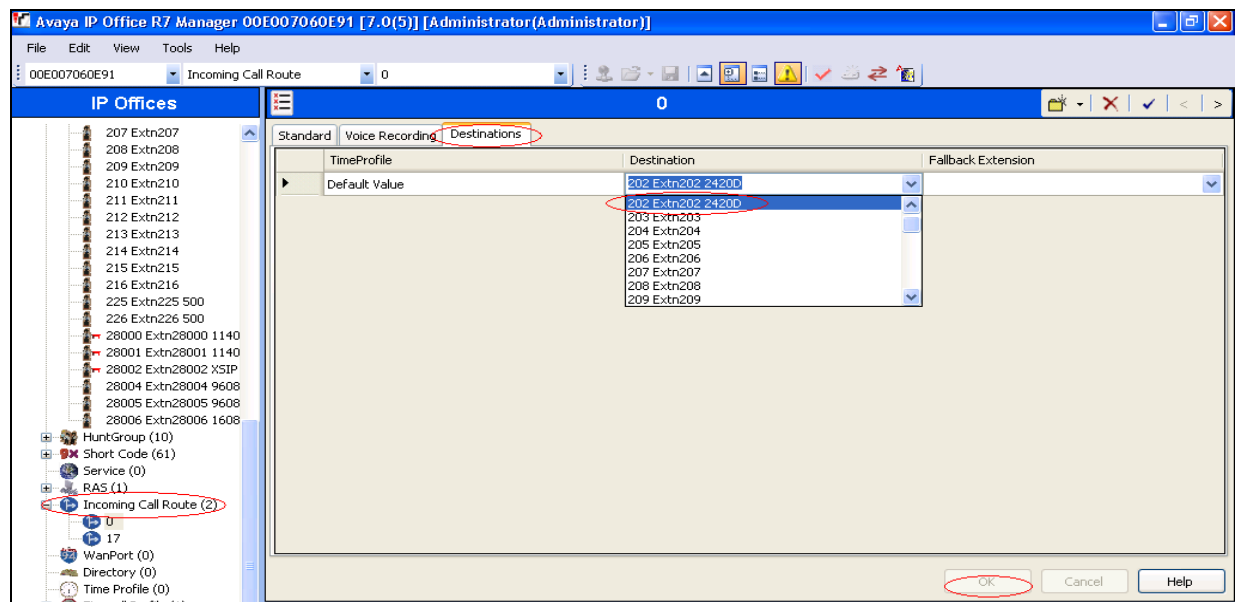


Figure 11: Selecting the Destination User Telephone

6. Configuring the Algo 3226

This section explains the steps required to configure the 3226 to interoperate with IPO. Assumption is made that all the required wiring between the 3226 controller and the Doorphone is successfully completed. For complete information on 3226 installation and configuration refer to **Section 9[2]**.

6.1. Connecting the 3226 Controller to IPO

The 3226 controller has a telephone jack and Door Station jack. Connect the telephone jack to a port on the IPO Analog Trunk module. During compliance testing Port 1 of the IPO Analog Trunk module was configured and used. Connect the Door Station jack to the 3226 Door Station.

7. Verification Steps

The following tests were conducted to verify the solution between the Algo 3226 and Avaya IPO

- Verify that when the button on the Door Station is pressed and the telephone on the IPO rings and a clear speech path is established.
- Verify that when the IPO telephone goes off hook a Line is accessed and a trunk is seized that connects to the Door Station and that a clear speech path is established.
- Verify that the solution works with different Avaya clients (e.g: digital, analog, IP etc) and that DTMF tones generated from these different clients are able to unlock the door release.
- Verify that 3226 goes into an idle state when the call is completed.

8. Conclusion

All executed test cases have passed and met the objectives outlined in **Section 2**. The Algo 3226 Trunk Port FXO Doorphone is considered compliant with Avaya IP Office Release 7.0.

9. Additional References

[1] Product documentation for Avaya products may be found at:

<https://support.avaya.com/css/Products/>

[2] Product documentation for Algo 3226 may be found at:

<http://www.algosolutions.com/3226>

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