



Avaya Solution & Interoperability Test Lab

Application Notes for Bittel Electronics Uno Voice Series Analog Telephones with Avaya Aura® Communication Manager – Issue 1.0

Abstract

These Application Notes describe a solution comprised of Avaya Aura® Communication Manager and Bittel Electronics Uno Voice Series Analog Telephones. During compliance testing, Bittel Uno Voice Series Analog Telephones successfully placed and received calls to and from other telephones, and activated and deactivated the Message Waiting Indicators (MWI) on the telephones.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe a solution comprised of Avaya Aura® Communication Manager and Uno Voice Series Analog Telephones. Bittel Uno Voice Series Analog Telephones are feature-rich telephones designed for use in guestrooms for the hospitality industry.

2. General Test Approach and Test Results

The general test approach was to place calls to and from the Bittel telephones and to activate and deactivate the MWI on the telephones using the Leave Word Calling (LWC) feature on Communication Manager. The LED MWI on the Bittel telephones was tested.

2.1. Interoperability Compliance Testing

The main objectives of the interoperability compliance test were to verify that:

- Bittel telephones successfully establish calls with Avaya telephones attached to Communication Manager.
- Bittel telephones successfully activate the MWI using the LWC Send A Message feature access code (FAC).
- Bittel telephones successfully deactivate the MWI using the LWC Cancel A Message FAC.

2.2. Test Results

All test cases were successfully completed.

2.3. Support

For technical support on Uno Voice Series Analog Telephones, contact Bittel technical support at:

- Telephone: +86-633-2212125
- E-mail: tech@bittelcom.com

3. Reference Configuration

Figure 1 illustrates a sample configuration consisting of Communication Manager running on an Avaya S8510 Server with the Avaya G650 Media Gateway and the Bittel Uno Voice Series Analog Telephones. An Avaya 2420 Digital Telephone and an Avaya 6221 Analog Telephone were included to demonstrate calls between the Bittel analog telephones and the Avaya telephones. An Avaya 4548GT-PWR Converged Stackable Switch provides network connectivity to Communication Manager and an IP telephone.

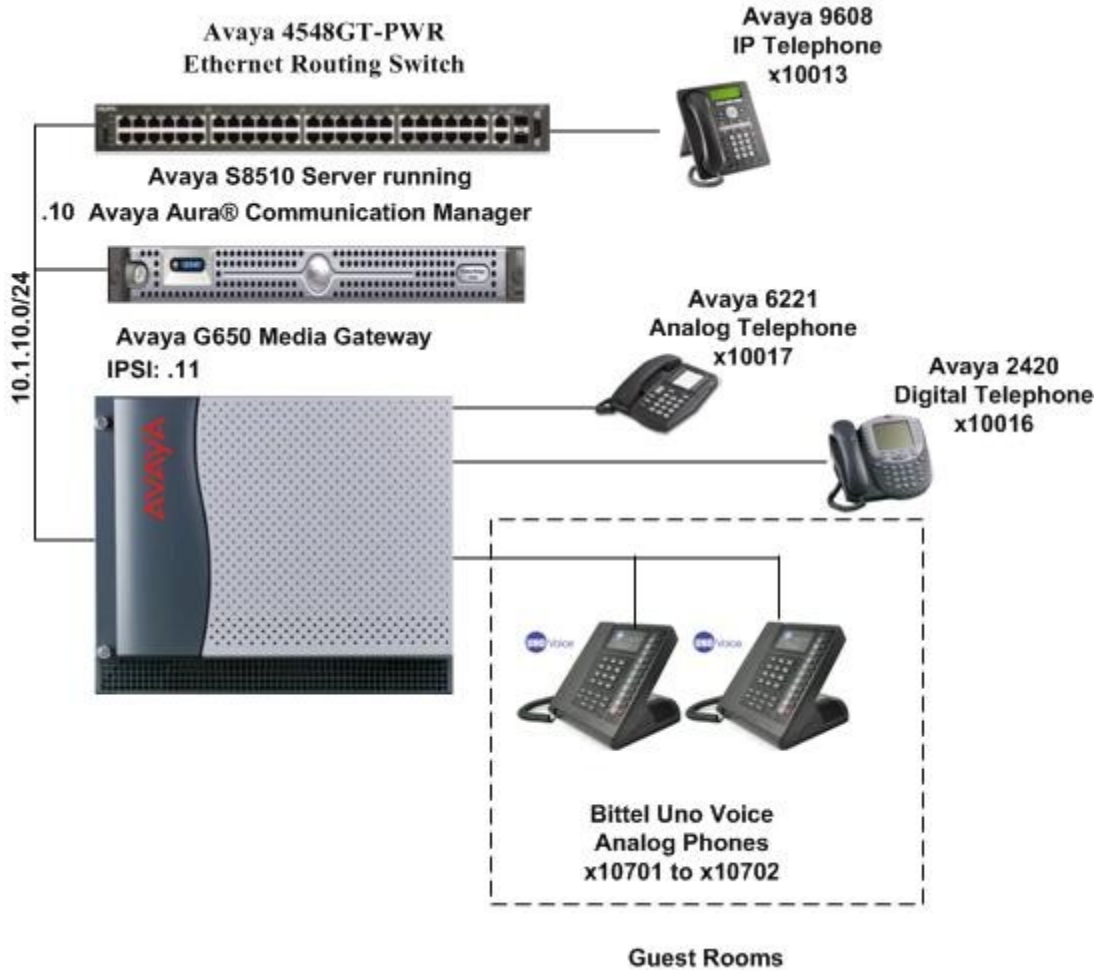


Figure 1: Sample Configuration

4. Equipment and Software Validated

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

Equipment	Software / Firmware
Avaya S8510 Server	Avaya Aura® Communication Manager 6.0.1 SP6 (with Service Pack 00.1.510.1-19350)
Avaya G650 Media Gateway - TN793CP Analog Line - TN2214CP Digital Line - TN799DP C-LAN - TN2602AP IP Media Processor	HW09, FW011 HW08, FW015 HW01, FW040 HW02, FW059
Avaya 9608 IP Telephone	6.0 SP4 (H.323)

Equipment	Software / Firmware
Avaya 2420 Digital Telephone	-
Avaya 6221 Analog Telephone	-
Avaya 4548GT-PWR Converged Stackable Switch	4.5.18
Bittel Analog Telephones Uno Voice, Analog HA 9888 (67) TSD	-

5. Configure Avaya Aura® Communication Manager

This section describes the steps for administering the Bittel analog stations in Communication Manager. Configuration is only for the fields where a value needs to be entered or modified. Default values are used for all other fields.

These steps are performed from the Communication Manager System Access Terminal (SAT) interface. Enter the **save translation** command when this section is completed.

Step	Description
1.	<p>Enter the add station s command, where s is an available extension in the dial plan, to administer a Bittel analog station. On Page 1 of the station form, configure the following fields:</p> <ul style="list-style-type: none"> • Type – Set to 2500. • Port – Set to an unused port on the TN793CP Analog Line circuit pack. In this example, the Port field is set 01A0605 where the Bittel telephone is connected. • Name – Enter any descriptive name. • Message Waiting Indicator – Set to led. <p>Note: The Uno Voice only support LED light.</p>
	<pre> add station 10701 Page 1 of 4 STATION Extension: 10701 Lock Messages? n BCC: 0 Type: 2500 Security Code: TN: 1 Port: 01A0605 Coverage Path 1: COR: 1 Name: Bittel 1 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: led Off Premises Station? n Message Lamp Ext: 10701 Survivable COR: internal Survivable Trunk Dest? y Remote Office Phone? n Passive Signalling Station? n </pre>

3. For this compliance testing, the Leave Word Calling (LWC) feature was used to activate and deactivate the MWI on the Bittel telephones. To use the LWC feature, enter the **change feature-access-codes** command and administer the feature access codes (FAC) for **Leave Word Calling Send A Message** and **Leave Word Calling Cancel A Message**.

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change feature-access-codes                                     Page 3 of 9
                                FEATURE ACCESS CODE (FAC)
    Leave Word Calling Send A Message: *35
    Leave Word Calling Cancel A Message: *36
Limit Number of Concurrent Calls Activation: *37      Deactivation: *38
    Malicious Call Trace Activation: *39              Deactivation: *40
    Meet-me Conference Access Code Change: *41
    Message Sequence Trace (MST) Disable:

PASTE (Display PBX data on Phone) Access Code: *42
Personal Station Access (PSA) Associate Code: *43      Dissociate Code: *44
    Per Call CPN Blocking Code Access Code: *45
    Per Call CPN Unblocking Code Access Code: *46

    Priority Calling Access Code: *47
    Program Access Code:

Refresh Terminal Parameters Access Code:
    Remote Send All Calls Activation: *48              Deactivation: *49
    Self Station Display Activation: *50
    Send All Calls Activation: *51                    Deactivation: *52
    Station Firmware Download Access Code: *53

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6. Configure Bittel Analog Telephones

There is no configuration required for the Bittel Uno Voice Series Analog Telephones to work with Communication Manager. To operate the Bittel telephones, refer to the user guide that is provided with the telephones.

7. Verification Steps

The following steps may be used to verify the configuration:

- Place calls to and from the Bittel telephones and verify that the calls are successfully established with two-way talk path.
- Activate the MWI on a Bittel telephone using another telephone (e.g. Avaya Digital telephone) by dialing the **Leave Word Calling Send A Message** FAC followed by the extension of the Bittel telephone.
- Using the same telephone used to activate the MWI, dial the **Leave Word Calling Cancel A Message** FAC followed by the extension of the Bittel telephone to deactivate the MWI.
- If a voicemail system (e.g. Avaya Modular Messaging) is configured on Communication Manager, leave a voice message for the Bittel telephone and verify that the MWI is activated. Then, retrieve the voice message using the Bittel telephone and verify that the MWI is deactivated.

8. Conclusion

These Application Notes describe a solution comprised of Avaya Aura® Communication Manager and Bittel Electronics Uno Voice Series Analog Telephones. During compliance testing, Bittel Uno Voice Series Analog Telephones successfully placed and received calls to and from other telephones, and activated and deactivated the Message Waiting Indicators (MWI) on the telephones. All test cases were completed successfully.

9. Additional References

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

[1] *Administering Avaya Aura® Communication Manager*, Release 6.0, Issue 6.0, June 2010, Document Number 03-300509.

Product information for Bittel products may be found at <http://www.bittelcom.com/>.

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