

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Imagine Soft Meteor with Avaya IP Office 500 R8.1 - Issue 1.0

Abstract

These Application Notes describe the compliance testing of Imagine Soft Meteor with Avaya IP Office 8.1. Meteor is used in hospitality industries to assist with check-in check-out and telephone usage authorization.

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 Imagine Soft Meteor server provides various telephony capabilities which help meet the needs of the hospitality industry. Meteor has the following capabilities which interact with Avaya IP Office:

- Meteor provides a check-in/check-out facility which changes telephone access privileges, providing telephone access to guests immediately upon check-in, and preventing unauthorized use after check-out.
- Meteor can assign a name to the telephone upon check-in, so that hotel or hospital staff can immediately recognize guests or patients from whom they receive telephone calls.
- Meteor allows hotel personnel to update room status via telephone to indicate the state of the room (i.e. it has been serviced by housekeeping, etc.).
- Meteor allows hotel guests to retrieve voicemail messages via external telephones attached to the Public Switched Telephone Network (PSTN).
- Meteor allows each hotel guest to program WAKEUP in his own language (6 languages) and hotel staff to verify wakeup status.
- Meteor can assign Direct Inward Dial (DID) extensions to hotel guests to enable them to have a telephone number independent of their room number which can be called from PSTN telephones, allowing guests to be reached by the same number, even though they may change hotel rooms.

2. General Test Approach and Test Results

The general test approach was to configure the Imagine Soft Meteor (Meteor) to communicate with the Avaya IP Office (IP Office) as implemented on a customer's premises. See **Figure 1** for a network diagram. The interoperability compliance test included both feature functionality and serviceability tests.

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 testing included:

- Perform a guest check-in and verify that the guest's name is assigned to the telephone assigned to the guest's room, and that the guest is able to make calls via the PSTN.
- Perform a guest checkout and verify that the guest's name no longer assigned to the telephone, that the telephone can no longer make external calls, that the MWI light goes out if it was on prior to checkout, and any wakeup calls pending for that guest are removed.
- Verify that a room change causes the guest's messages, MWI status, calling privileges, station name, and wakeup calls to be assigned to the new extension.

- Verify that the system administrator can manually turn on or off a guest telephone's MWI lamp.
- Verify that local and external calls can leave messages for guests, and the guest can retrieve these messages, and that the state of the MWI lamp changes correctly.
- Verify that wakeup calls can be created or erased by either guests or administrators, and the wakeup calls are signaled correctly to guests.
- Verify that guests are billed correctly for local and external calls.
- Verify that DND can be activated or deactivated correctly by the administrator, and the incoming calls are blocked correctly.
- Verify that DIDs can be assigned to guests, and can be called correctly from external telephones.

2.2. Test Results

Tests were performed to insure full interoperability between Meteor and IP Office. The tests were all functional in nature and performance testing was not included. All the test cases passed successfully.

2.3. Support

Technical support from Imagine Soft can be obtained through the following:

Phone: +33 491327432

E-mail: hotline1@imaginesoft.fr

Fax: +33 491327401

3. Reference Configuration

Figure 1 illustrates the network topology used during compliance testing. The Avaya solution consists of an IP Office 500 which is configured to output SMDR. 4 analog lines between Meteor SE and the IP Office are used to access Voicemail and send announcements and wake-up messages to guest telephones. The number of lines required is dependent on the number of guest extensions. Digital 2420, and 9640G H323 extensions were configured on the IP Office as Guest phones. A QSIG trunk was configured to connect to the PSTN over which external calls can be made and received. During compliance testing the Meteor server was used to host the Meteor Console application which is browser based.



Figure 1: Avaya IP Office and Imagine Soft Meteor Reference Configuration

4. Equipment and Software Validated

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

Avaya Equipment	Software / Firmware Version
Avaya IP Office 500	8.1(43)
Avaya 9640G IP Telephone	H323 S3.104S
Avaya 2420 Digital Telephones	
Avaya IP Office Softphone	3.2.3.48
Imagine Soft Equipment	Software / Firmware Version
Fujitsu Esprimo running Microsoft Windows 7	Meteor 5.00
Professional SP1	Microsoft Internet Explorer 9 (Meteor client)
	MySQL 4.0.18
	Tomcat 6.0.14
	MS C++ Runtime 2005 SP1
	MS.net Framework 4.0
Dialogic D4PCI Analog Telephone Interface	D/4PCI e

5. Avaya IP Office Configuration

Configuration and verification operations on the Avaya IP Office illustrated in this section were all performed using Avaya IP Office Manager. The information provided in this section describes the configuration of the Avaya IP Office for this solution. It is implied a working system is already in place. During compliance testing Guest users/Extensions, Hunt groups, Virtual Users for DDI, User Rights Short Codes and analog extensions (for IVR and Voicemail) were configured but are outside the scope of this Application Note. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 9**. The configuration operations described in this section can be summarized as follows:

- Launch Avaya IP Office Manager (Security)
- Security Level
- Launch Avaya IP Office Manager (Administration)
- System configuration
- Voicemail Configuration
- SMDR Configuration
- Save Configuration

5.1. Launch Avaya IP Office Manager (Security)

To Log in as a Security administrator first Log in as Administrator. From the IP Office Manager PC, go to Start \rightarrow Programs \rightarrow IP Office \rightarrow Manager to launch the Manager application. Select File \rightarrow Open Configuration then select the appropriate IP Office. Log in to IP Office using the Service User Name of Administrator and the appropriate Service User Password and click on the OK button. During compliance testing the System was called 00E00702D89A.

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Once the Configuration is opened select <u>File \rightarrow Advanced \rightarrow Security Settings.</u>

In the **Configuration Service User Login** window Log in using the **Service User Name** of **security** and the appropriate **Service User Password** and click **OK**.

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5.2. Security Level

Once the Security Administration page opens, select Services \rightarrow Configuration and select Unsecure + Secure from the Service Security Level drop-down box and click OK.

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Click on the **Save** icon to save the new setting. Enter the appropriate the **Service User Name** and **Service User Password** and click on **OK** to complete (not shown).

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To log out of the **Security Administration** click **File** \rightarrow **Exit**.

5.3. Launch Avaya IP Office Manager (Administration)

From the IP Office Manager PC, click **Start** \rightarrow **Programs** \rightarrow **IP Office** \rightarrow **Manager** to launch the Manager application. Log in to IP Office using the appropriate credentials (not shown) to receive the IP Office configuration .

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5.4. System Configuration

During compliance testing the Locale was set to France so as to interoperate correctly with the Dialogic D4PCI Analog Telephone Interface. Select the **System** tab and Select **France (French)** from the **Locale** drop box and click **OK**

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System LAN1 LAN2 DNS Void	email Telephony Directory Services Sy	stem Events SMTP SMDR Twinning VCM CCR Codecs
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5.5. Voicemail Configuration

As Voicemail is part of the Meteor Solution the IP Office Voicemail must be switched off. Select the **Voicemail** tab and select **<None>** as the **Voicemail Type** and click **OK**.

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SIP Name								
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Contact								
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5.6. SMDR Configuration

Select the **SMDR** tab, and enter the following information and click **OK**:

- **Output** Select **SMDR Only** from the drop box
- **IP Address** Enter the IP Address of the Meteor Server
- TCP Port Enter 5010
- **Records to buffer** Enter **3000**. This is maximum available
- Uncheck the **Call Splitting for Diverts** check box

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5.7. Save Configuration

Once all the configurations have been made it must be sent to the IP Office. Click on the **Save** Icon as shown below.



Save Configuration	_ 🗆 🗙
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00E00702D89A	
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Reboot Time	
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Call Barring	
Incoming Calls	
Outgoing Calls	
OK Cancel	Help

Once the **Save Configuration** window opens, click **OK**.

When the Service User Login Window opens enter the appropriate credentials and click OK.

s	Service User Login						
	IP Office :	00E00702D89A - IP 500					
	Service User Name	Administrator					
	Service User Password	•••••	•••				
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6. Configure Meteor Server

This section provides the procedures to configure the Meteor Server. It is implied that the Meteor is already in place, including license, Voice Mail and Hotel Configuration and is configured with an IP address on the same subnet as the IP Office. It is also implied that the Dialogic D/4PC1 is installed and configured. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 9**. The configuration operations described in this section can be summarized as follows:

- Login to the Meteor server
- Configure Interface Parameters
- Restart Meteor server

6.1. Login to the Meteor server

To access the web-based interface of the Meteor server use the URL <u>http://x.x.x.x</u>, where x.x.x.x is the selected IP address of the Meteor Server. Enter the appropriate **Login** and **Password** credentials and click **OK**.



6.2. Configure Interfaces Parameters

Once the main page opens select System.





Once the next page opens select **Interface parameters** from the left frame.

6.2.1. Configure IP Office Manager PMS Parameters

On the Select an interface page select IP Office Manager PMS.



Solution & Interoperability Test Lab Application Notes ©2013 Avaya Inc. All Rights Reserved. 21 of 31 Meteor5_IPO_8_1 Once the **IP Office Manager PMS** Parameters page opens set the value for each parameter shown in the following table by selecting **Update** for each of the highlighted entries, one at a time. Enter the values indicated in the table. When these parameters have been configured, click the **Add** button.

Parameter	Usage
Configuration Web Services port	Enter the port to be used by Web Services
IP Office PBX IP	Enter the IP address of Avaya IP Office LAN
	interface
Login	Enter the Avaya IP Office administrator user ID
Password	Enter the Avaya IP Office administrator user
	password
DDI Prefix	Set the value to the leading digit which is used
	for DDI extensions
Timeout	Enter the Timeout value



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6.2.2. Configure IP Office Manager PMS Parameters

On the Select an interface page select IP Office Call logging.



Once the **IP Office Call logging** Parameters page opens set the value for each parameter shown in the following table by selecting **Update** for each of the highlighted entries, one at a time. Enter the values indicated in the table. When these parameters have been configured, click **Add**.

Parameter	Usage
Port	Enter the SMDR port of the IP
Traffic analysis	Enter 1to activate call logging after the first call



6.3. Restart Meteor server

Once the interface Parameters are made the Meteor server must be restarted. Select **Process start** / **stop** from the left frame.



C System	item/ P+CX Ø	localhost >	Process start / stop		
Administration Licence installation Installed components COM Ports installation <u>Process start / stop</u> Interface status		METEOR is running Last stari: 25/10/2012 13:25 Last stop: 25/10/2012 13:21			
System logs System log configuration View Log files Alarms Parameters System parameters	IF_IPOFFICE_RHM IF_IPOFFICE_TAX SW_IPOFFICE_TAX SW_IPOFFICE_TAX SW_PBXCMD VM_MANAGER VM_V01 VM_V01 VM_V02 VM_V03 VM_V04	IP Office Manager PMS IP Office Call logging Switch (Internal Process) Switch (Internal Process) Pbx commands Main voicemail process Channel 1 Channel 2 Channel 4	Running Running Running Running Running Running Running Running Running	Activated Activated Activated Activated Activated Activated Activated Activated Activated	Deactivate Deactivate Deactivate Deactivate Deactivate Deactivate Deactivate Deactivate Deactivate
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Once the **Process start / stop** page opens select the **Red** button highlighted to stop the system.

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Administration Licence installation Installed components COM Ports installation <u>Process start / stop Interface statue</u>		L	METEOR is stopped ast start: 25/10/2012 13:25 ast stop: 25/10/2012 13:32			
Interface status			Processes List			
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Once the system is stopped select the Green button highlighted to start the system.

7. Verification Steps

Use the following steps to verify that Meteor and IP Office are each configured correctly.

7.1. Verify Meteor Interface status

After making at least one outgoing call, verify that Meteor is running and the PMS and Call Logging controls are both green by logging into the Meteor Server and selecting **Interface status**.



7.2. Verify Meteor IP Office Manager PMS

Click on the **IP Office Manager PMS** link shown in **Section 7.1** and verify that the message **Configuration file parsed successfully** is displayed, as shown in the following screen.

Attp://localhost/sy	ystem/ 🔎 🕆 🖒 🏉 localhost 🛛 🗙 👘	ĥ ☆ ‡
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System	2012/10/25 11:02:27 >>>DND ON on ext=89112	
	2012/10/25 11:02:31 Configuration transfered: True	
Administration	2012/10/25 11:03:22 >>>DND OFF on ext=89111	
Licence installation	2012/10/25 11:03:28 SSSDND OFF on ext=80112	
Installed components	2012/10/25 11:03:32 Configuration transfered: True	
COM Ports installation	2012/10/25 11:08:53 Command not handled: LMP	
Process start / stop	2012/10/25 11:23:17 Retrieving configuration file	
Interface status	2012/10/25 11:23:36 Configuration file parsed successfully	
Internace Status	2012/10/25 11:23:36 IP OFFICE WS Interface started	
. System logs	2012/10/25 11:26:53 >>> Name Modification on ext=89111	
iii system logs	2012/10/25 11:26:58 Configuration transfered: True	
System log configuration	2012/10/25 11:26:59 >>> Name Modification on ext=89112	
View Log files	2012/10/25 11:27:04 Configuration transfered: True	
Alarms	2012/10/25 11:27:05 >>> Cos Modification on ext=89111	
	2012/10/25 11:27:10 Conliguration transfered. True	=
Parameters	2012/10/25 11:27:15 Configuration transferred: True	
·	2012/10/25 11:28:26 >>> Name Modification on ext=89111	
System parameters	2012/10/25 11:28:31 Configuration transfered: True	
Call logging parameters	2012/10/25 11:28:32 >>> Name Modification on ext=89112	
Interface parameters	2012/10/25 11:28:36 Configuration transfered: True	
COM ports parameters	2012/10/25 11:28:36 >>> Cos Modification on ext=89111	
	2012/10/25 11:28:41 Configuration transfered: True	
Local Zone	2012/10/25 11:28:41 >>> Cos Modification on ext=89112	
Local Zone Selection	2012/10/25 11:28:46 Configuration transfered: True	
Local Long Coloradi	2012/10/25 11:38:20 Retrieving configuration file	
	2012/10/25 11:38:43 Configuration file parsed successfully	
	2012/10/25 11:36:43 IP OFFICE WS Interface stated	
	2012/10/25 11:44:10 200 Checkout on ext-og TTT	
	2012/10/25 11:44:25 >>> Checkout on ext=89112	
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7.3. Verify Meteor Call logging retrieves Call Records

To ensure that Meteor is retrieving Call Records make some calls to and from the IP Office, click on the **IP Office Call Logging** link shown in **Section 7.1**. Verify that records relevant to the actual call activity are displayed.



8. Conclusion

A full and comprehensive set of feature functional test cases were performed during Compliance testing. Imagine Soft Meteor 5 is considered compliant with Avaya IP Office 8.1 All test cases have passed and met the objectives outlined in **Section 2.2**.

9. Additional References

These documents form part of the Avaya official technical reference documentation suite.

Further information may be had from <u>http://support.avaya.com</u> or from an Avaya representative. [1] Avaya IP Office R8.1 Manager 10.1, August 3rd 2012, Issue 290, Document Number 15-

601011

The Meteor documentation is contained in the following directory after the product has been installed: C:\Meteor\tomcat\webapps\ROOT\help. This documentation is also available on the installation medium prior to installation.

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