

Avaya Solution & Interoperability Test Lab

Application Notes for SLIT Nova WEBHotel with Avaya IP Office - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for SLIT Nova WEBHotel to successfully interoperate with Avaya IP Office.

The objective of the test was to evaluate the interoperability of the above-mentioned products in a Hospitality environment, i.e. the successful authorisation and routing of incoming and outgoing calls and the processing of call detail records for those calls.

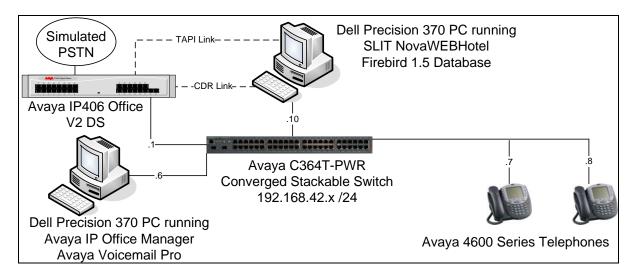
Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the configuration steps required for SLIT Nova WEBHotel to successfully interoperate with Avaya IP Office.

Nova WEBHotel software suite is a PC-based application suite that provides an end user interface with Avaya IP Office in a Hospitality environment. The suite is able to manage one or several Avaya IP Offices, and works as a web application to meet the requirements of hotels. It is widely used in hotels in France.

These notes describe the compliance test configuration using SLIT Nova WEBHotel, an Avaya IP Office and the Voicemail Pro module. Incoming and outgoing calls are routed through the Voicemail Pro to allow guest authentication, using scripts provided by SLIT to communicate with the Nova WEBHotel database. The Telephony Application Programmer Interface (TAPI) link is used to initiate wake up calls.



The main functions of SLIT Nova WEBHotel are as follows:

- **Check-in and check-out:** These functions are used to manage guests, assign them to particular rooms and Avaya IP Office extension numbers for incoming calls, and allow them to make phone calls according to their account balance. Billing operations are performed during check-out, allowing the hotel to bill the guest for telephony services.
- **Room transfer facility:** This function is used to change the room and/or Avaya IP Office extension number assignment of a particular guest.
- **Change controlled restrictions:** This facility consists of using the built-in functions of Avaya IP Office and Voicemail Pro module to allow or prevent guest-originated phone calls, according to the guest's balance. The guest's account is checked at call time against an internal table, and the appropriate rights are given to the caller's phone.

2. Equipment and Software Validated

The following equipment and software were used for the compliance-tested configuration.

Equipment	Software
Avaya IP406 Office V2 DS Control Unit	Avaya IP Office 4.0 (10)
Avaya C364T-PWR Converged Stackable	4.6.12
Switch	
Dell Precision 370 PC	Windows XP Professional, Service Pack 2
	Avaya Voicemail Pro 4.0 (18)
	Avaya IP Office Manager 6.0 (10)
Avaya 4610SW IP Telephones	2.3
Avaya 4620SW IP Telephones	2.3
Dell Precision 370 PC	Windows XP Professional, Service Pack 2
	SLIT Nova WEBHotel 4.0
	FireBird 1.5 Database

3. Configure Avaya IP Office

This section provides the procedures for configuring Avaya IP Office for interoperability with SLIT Nova WEBHotel. The procedures include the following areas:

- License Avaya IP Office
- Configure Avaya IP Office
- Configure Voicemail Pro

Please note that it is expected that the installer is familiar with configuring users, trunk groups etc. on Avaya IP Office as the focus of these Application Notes is on the configuration of the interface to SLIT Nova WEBHotel only. For all other provisioning information, such as software installation, installation of optional components, basic configuration of Avaya IP Office, etc., refer to the Avaya IP Office product documentation in reference [1].

3.1. License Avaya IP Office

Log into the IP Office Manager PC and go to **Start > Programs > IP Office > Manager** to launch the Manager application. Go to **File > Open Configuration** to bring up the **Select IP Office** dialog box. Select the IP Office system by checking the system name as seen below and clicking **OK**. In this case, there is only one system to select.

1	Select IP Office	
	Name IP Address Type Version	
	Version 4.0	
	✓ 00E00701D548 192.168.42.1 IP 406 D5 4.0 (5)	
	TCP Discovery Progress Unit/Broadcast Address	
		<u>Cancel</u>

Ensure that the Avaya IP Office serial license dongle is connected to the IP Office Manager PC. Log into the Avaya IP Office Manager application by using the appropriate user name and password (not shown).

In the Manager window, go to the left panel Configuration Tree and click **System**. Click the **System** Tab on the right panel. The **Dongle Serial Number** field should be populated with the serial number of the dongle previously plugged into the IP Office Manager PC. Enter the IP address of the IP Office Manager PC in the **License Service IP Address** field and click **OK**.

K Avaya IP Office Manager 6.0 (10) IP(File Edit View Iools Help	0412aDC1 [4.0(10)] [Administrator(Administrator)]	
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210 Extn210 20000 Name20000	Error List	< >

Solution & Interoperability Test Lab Application Notes ©2008 Avaya Inc. All Rights Reserved. Three licenses are required for Nova WEBHotel.

- **CTI Link Pro:** This license allows Nova WEBHotel to connect to Avaya IP Office via TAPI.
- Voicemail Pro (4 ports): This license enables the use of Voicemail Pro with Avaya IP Office and includes 4 ports. Further ports can be licensed if required.
- **VMPro Database Interface**: This license enables Voicemail Pro to connect to the database of Nova WEBHotel.

To add a license, go to the Configuration Tree in the Manager window, right-click **License** and select **New** from the drop-down menu. Enter the license code, provided by Avaya or the Business Partner, into the **License Key** field and click **OK**.

👫 Avaya IP Office Manager 6.0 (10) IPO412aDC1	[4.0(10)] [Administ	rator(Administrator)]	
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3.2. Configure Avaya IP Office

To enable the CDR interface, open the IP Office Manager application. In the Manager window, go to the left panel Configuration Tree and click **System**. Select the **CDR** Tab on the right panel and configure the fields as follows.

- Enable CDRs: Check the check box.
- Enable Intra-Switch CDRs: Check the check box.
- **Record Format:** "Expanded"
- **Record Options:** "Enhanced"
- **Date Format:** Select the **Day****Month** radio button.
- **IP Address:** Enter the IP address of the Nova WEBHotel system.
- **Port Number:** Enter any unused port number.

The rest of the fields may be left at their defaults. Once completed, select **OK**.

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The rest of the Avaya IP Office configuration is based on configuring short codes to pass calls into Voicemail Pro. Each short code is assigned to a script within Voicemail Pro, which interacts with the Nova WEBHotel database. The short codes required are as follows:

- **Wake-up:** This short code passes a guest into Voicemail Pro where a script guides them through the process of arranging a wake up call.
- **PSTN outgoing:** This short code passes a guest, who wishes to call a PSTN number, into Voicemail Pro where a script asks them for their account code or PIN and checks their balance before authorising or denying the call.
- **PSTN incoming:** This short code passes an incoming PSTN caller into Voicemail Pro, where a script asks them to enter the extension or room number of the guest they are calling.
- **Trunk access:** This short code is used by Voicemail Pro when it routes an authorised caller back to Avaya IP Office. The short code will route the call out to the PSTN.

To add a short code in the Avaya IP Office Manager application, right-click on **Short Codes** in the left hand pane and select **Add New** from the drop-down menu.

Short Code Type	Code	Feature	Telephone Number
Wake-up	X	Voicemail Collect	"SLIT_Reveil"
PSTN outgoing	XN	Voicemail Collect	"SLIT_Clef"
PSTN incoming	X	Voicemail Collect	"SLIT_Fausse_SDA"
Trunk access	XN	Dial	Leave blank

Configure the fields in the **Short Code** tab as per the following table.

"X" represents any combination of digit(s) 1-9, * and #; and must be different for each short code. The rest of the fields may be left at their defaults. Once completed, select **OK**.

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The PSTN incoming short code must be added to the **Incoming Call Route** settings as follows. Right-click **Incoming Call Route** in the left-hand pane and select **Add New** from the drop-down menu. In the **Standard** tab, enter the PSTN incoming short code into the **Destination** field and select **OK** when completed.

👫 Avaya IP Office Manager 6.0	(10) IPO412aDC1 [4.0(10)] [Administrator(Administrator)]			
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3.3. Configure Voicemail Pro

The Avaya IP Office Voicemail Pro module is used to control whether or not guests are allowed to perform external calls, and also to route incoming calls to the right extension. For that, a series of scripts is used. This section focuses on the installation of these scripts into the Voicemail Pro module.

On the PC where the Voicemail Pro module is installed, insert the Nova WEBHotel installation CD. Select **Start > Programs > IP Office > Voicemail Pro Client** to open the Voicemail Pro Client program. Select **File > Import or Export**.

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Data – Modified (Local)	

On the first **Import or export call flows** screen, select the **Import call flows** radio button and select **Next**.

Import or export call f	lows	×
	Do you want to import or export call flows? Import call flows Export call flows	
	Help <back next=""></back>	<u>C</u> ancel

On the second **Import or export call flows** screen, enter "D:\Utilitaires\Outils\Avaya\slit.mod" into the text box (this assumes the Nova WEBHotel installation CD has been inserted into the D: drive). Once completed, select **Next**.

Import or export call f	lows	X
믈	Import call flows from which file?	
	D:\Utilitaires\Outils\Avaya\slit.mod	
	Please note, the folllowing file extensions must be used: Entire database (*.mdb) Modules only (*.mod)	
	<u>H</u> elp < <u>B</u> ack Ne <u>x</u> t> <u>C</u>	ancel

On the third **Import or export call flows** screen, select all the modules in the list (by selecting the first, then holding down the Shift key and selecting the last module). Once completed, select **Next**.

Import or export cal	l flows	×
	Please select the modules you want to import	
	[SLIT] Recup Occupant / Clef-SDA [SLIT] Recup Occupant / Poste [SLIT] Recup Poste Occupant / SD [SLIT] Reveil SLIT_Olef SLIT_Olffusion_Reveil SLIT_Fausse_SDA SLIT_Reveil [SLIT] Mode fonctionnement	
	Help <back next<="" th=""><th><u>C</u>ancel</th></back>	<u>C</u> ancel

On the final Import or export call flows screen, select Finish.

Import or export call fl	ows	×
	Press <finish> to import selected modules from: "D:\Utilitaires\Outils\Avaya\slit.mod"</finish>	
	<u>H</u> elp < <u>B</u> ack <u>Finish</u>	<u>C</u> ancel

A confirmation box will appear, select **OK**.

The next step is to copy the .WAV files into the correct directory. Open the Nova WEBHotel install CD in **Windows Explorer** and browse to "\Utilitaires\Outils\Avaya". Copy the "slit" folder and paste into "C:\Program Files\Avaya\IP Office\Voicemail Pro\VM\WAVS", assuming Voicemail Pro was installed into its default location on the PC's C: drive.

The final step is to ensure that Voicemail Pro inserts the correct short code, for trunk access, when it transfers the caller back to Avaya IP Office. Open **Voicemail Pro Client** and, in the **Modules** pane, select the **[SLIT] Clef** module. This will bring up a workflow in the main pane. Move to the bottom right hand corner of this pane, right click on the **Assisted Transfer** node and select **Properties** from the drop down menu.

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Data – Modified (Local)	Properties	//

On the **Properties for Assisted Transfer** screen, select the **Specific** tab. Enter "X\$KEY" in the **Mailbox** field, where X is the trunk access short code assigned in **Section 3.2**. The other fields may be left at their defaults. Select **OK** when completed.

Propert	ties for Assist	ed Trans	fer				2×
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4. Configure SLIT Nova WEBHotel

This section provides the procedures for configuring SLIT Nova WEBHotel. The procedures include the following areas:

- Install the Nova WEBHotel software
- Configure the Nova WEBHotel software

It is expected that the installer is familiar with the standard configuration of SLIT Nova WEBHotel, as the focus of these Application Notes is on the configuration of the interface to Avaya IP Office only. For all other provisioning information, such as software installation, installation of optional components, basic configuration of SLIT Nova WEBHotel, etc., refer to the SLIT Nova WEBHotel product documentation in reference [2].

4.1. Install the Nova WEBHotel Software

The initial configuration of Nova WEBHotel is done during the installation from CD.

The configuration wizard starts when the **Licenses** screen is displayed. The following screens may be left at their defaults. Select **Suivant** to continue.

- Licenses
- Parametres generaux
- Historiques/Journaux
- Utilisateurs et profiles

On the Annuaire screen, select the Numerotation tab. Configure the fields as follows.

- La numérotation externe: Enter the short code used for accessing an external line.
- La numérotation abrégée: Enter the initial digit of the Avaya IP Office extensions.
- Nombre de chiffres validant l'ajout du préfixe pour la numérotation externe: Enter the amount of digits (not including the short code) required to dial an external number.

Once completed, select **Suivant**.

Hiérarchies et champs Numérotation Poste obligatoire pour les abonnés : Image: Cette page permet le paramétrage de tous les champs de l'annuaire ansi que les niveaux hiérarchiques de la suite. Nombre de chiffres validant l'ajout du préfixe pour la numérotation externe : 11	Annuaire	
< <u>P</u> récédent	Poste obligatoire pour les abonnés : Préfixe pour : - La numérotation externe : - La numérotation abrégée : 2	permet le paramétrage de tous les champs de l'annuaire ainsi que les niveaux hiérarchiques de la suite.

On the **Hôtel** screen, ensure that the following checkboxes and radio buttons are selected:

- Pas de DHM
- Compte téléphonique

Once completed, select, Suivant.

Hôtel	
Comptes gérés DHM Compte téléphonique : Image: Compte télévision : Compte divers : Image: Compte divers :	
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Lors du départ d'un patient, le solde de son compte téléphonigue est supprimé : 📃 🗌	permet de configurer le
Lors de l'arrivée d'un patient, le solde de son compte général est supprimé : même si le solde de son compte est négatif :	fonctionnement ainsi que les
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Lors de l'arrivée d'un patient, le compte téléphonique s'ouvre automatiquement : 🛛 🔽	modulo rropital.
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On the **Pabx** screen, select the link you wish to configure and select **Modifier**.

Pabx			-
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PABX2	non	DHM2	
PABX3	non	non	
			<u>S</u> uivant >>
Ajouter	Modifier Priorités DHM >	2	<< Précédent

On the **Modification d'un Pabx** screen, configure the fields as follows.

- Nom: Enter a descriptive name,
- Code pays où se situe le pabx: Enter the international dial code for the country of install.

The rest of the fields may be left at their defaults. Once completed, select the **Liaison** button under the **Fil de l'eau** checkbox.

Modification d'un Pabx				
Nom: PABX1	Rattaché au niveau hiérarchique :	Site	Eff.	Modifier
	Code pays où se situe le pabx :	0044	(France = 0033)	Annuler
Taxation à la durée : Répertoire : PABX_IPOffice Reconnaissance des opérateurs Opérateur Ident	ifiant Valeur pprimer ís 🔲 dans le pabx.		Topologie Pabx gérés par le fil de l'eau courant : Nom Pabx du site : Nom PABX2 PABX3	<u>Aide</u> Cette page permet le paramétrage du Fil de l'Eau, des opérateurs, de la topologie de Fil de l'Eau, du DHM.

On the **Modification d'une liaison** screen, configure the fields as follows.

- **Type de liaison:** "TCP/IP"
- **Longueur:** Enter the length of the IP Office extensions.
- Lancement: Select "Automatique" from the drop down list.
- Modèle de Pabx: Select "IP_OFFICE_ETENDU_AMELIORE" from the drop down list.

On the **TCP/IP** tab, check the **Mode Serveur** checkbox and configure the fields as follows.

- Adresse IP: Enter the IP address of the IP Office.
- **N° du port:** Enter the port number used by the IP Office to export the CDR statistics.
- **Protocole réseau:** Select "tcp" from the drop down list.

The rest of the fields may be left at their defaults. Once completed, select **Modifier** on both the **Modification d'une liaison** and **Modification d'un Pabx** screens; select **Suivant** on the **Pabx** screen.

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☐Type de connexion		Aid	e
 Connexion per 	-	ion périodique	
Durée entre deux	connexions : 10 😭 m	min. Durée de la connexion (max) : 10 😭 min.	
Lancement :	Automatique 😽	A partir d'un serveur distant :	
		Paramètres supplémentaires :	
ID du Pabx :		Création automatique des postes : 🗹	
Modèle de Pabx :		Paramétrer les variables	
Marque :	Avaya		
Modèle :	IP OFFICE		
Version : Commentaire :	1.0 Ticket pour l'IP Office Avaua :	a via IP (port 9105) format "Etendu (Amélioré)"	
Liaison :		s = 8, parité = N, bits de stop = 1	
TCP / IP			
Adresse IP :	192.168.42 .1	N* du port : 1234	
Time out réseau	0 🗊 minutes	Mode <u>s</u> erveur :	
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Modifié			

The following screens may be left at their defaults. Select **Suivant** in each case to continue.

- Pools
- Passerelles
- Supervision
- WebServices
- Gestion des alarmes et surveillance réseau
- Maintenance

This completes the installation of the Nova WEBHotel software.

4.2. Configure the Nova WEBHotel Software.

From the PC where NovaWEBHotel is installed, select **Start > Programs > NovaCS > NovaWeb**. Log in and select the **WebHotel** tab (not shown).

Select **Niveaux** from the left hand menu. Configure the fields as follows.

- Nom: Enter a descriptive name for the hierarchy.
- **Code:** Enter a unique ID for the hierarchy.
- Niveau Parent: Select the hierarchy under which this hierarchy should be located.
- **PABX:** Select the PBX created in Section 4.1.

The rest of the fields may be left at their defaults. Once completed, select Insérer.

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Select **Chambres** from the left hand menu. Configure the fields as follows.

- **Chambre:** Enter a descriptive name for the room.
- **Poste:** Enter the Avaya IP Office extension number to be assigned to the room.
- Niveau: Select the hierarchy created in the previous step.
- **N^o Agent:** Enter any string of digits.

The rest of the fields may be left at their defaults. Once completed, select **Insérer**.

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WebHotel Bienvenue Administrateur 💋	<u>↑</u> 28
Menu Création d'une chambre Clients présents Chambre : Nveau : Mode de fonctionnement : Chambre s Rooms • Poste • • Types de chambre Niveaux Poste • • Poste • • Nodes de fct. Tarifications SDA N° agert : • Normale • • Journal de caisse Journal de caisse @ Insérer @ Répéter insérer © Ferr	

On the **WebHotel** screen, select **Clients presents** from the left hand menu. Select **Arrivée** to start checking in a new guest.

Clients présents - Microsoft Internet Explorer			
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This completes the configuration of Nova WEBHotel.

5. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on the ability of SLIT Nova WEBHotel to receive and present Avaya IP Office CDR records and to request and respond to Avaya IP Office features using TAPI.

The serviceability testing focused on verifying the ability of SLIT Nova WEBHotel to recover from an outage condition, such as disconnecting the Ethernet cable for the TAPI and CDR links.

5.1. General Test Approach

All feature and serviceability test cases were performed manually. The verification included checking the states at the telephone sets, viewing TAPI message traces on SLIT Nova WEBHotel and viewing both raw and processed CDR records on SLIT Nova WEBHotel.

5.2. Test Results

All test cases passed successfully.

6. Verification Steps

This section provides the steps that can be performed to verify proper configuration of Avaya IP Office and SLIT Nova WEBHotel.

6.1. Verify CDR Link

On the PC where Nova WEBHotel is installed, double click on the **F** icon in the system tray. On the **Gardien NovaCS** screen, select the **Services** tab. Double click the entry corresponding to the PBX link created in **Section 4.1**.

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The **NovaTick N°1** screen is presented, as shown below. Make a call between two Avaya IP Office extensions and check that the CDR record appears on the **Nova Tick** application.

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05/02/2008 08:48:04 : Connecté à 192.168.1.63:4104, port local=1234								

6.2. Verify TAPI Link

On the **Gardien NovaCS** screen, select the **Services** tab. Double click on **SERVICE_REVEILX**, where "X" is a number and may vary depending on the number of other modules installed. On the **Service de gestion des réveils** screen, select **Test**. Enter an Avaya IP Office extension number in the **Poste pour l'appel** field and select **Lancer le test**. The Avaya IP Office extension number should ring.



7. Support

Technical support on SLIT Nova WEBHotel can be obtained through the following:

- **Phone:** +33 4 72 10 16 20
- Email: support@slit.fr

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RJP; Reviewed:
SPOC 3/19/2008
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8. Conclusion

These Application Notes describe the configuration steps required for Nova WEBHotel to successfully interoperate with Avaya IP Office.

9. Additional References

This section references the Avaya and SLIT product documentation that are relevant to these Application Notes.

[1] *IP Office 4.0 Installation Manual*, Document ID 15-601042, Issue 15e, January 2007, available at:
 <u>http://support.avaya.com.</u>

[2] Documentation for SLIT Nova WEBHotel is available, on request from: <u>http://www.slit.fr</u>

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