

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Interalia SBX with Avaya Communication Server 1000E R7.5 using TDM connections- Issue 1.0

Abstract

These Application Notes describe the configuration steps for provisioning Interalia's SBX system to successfully interoperate with Avaya Communication Server 1000E R7.5 using analog TDM connections. Interalia's SBX is a voice application platform that supports Recorded Announcements, Music on Hold and basic IVR technology.

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 compliance tested configuration using Interalia's SBX solution with Avaya Communication Server 1000E R7.5 using analog connections through the use of a Universal Trunk Card and a Flexable Analog Line Card (FALC) on the Avaya Communication Server 1000E. The Interalia's SBX is an entry-level system providing up to 8 analog ports and less than one hour of audio storage The Interalia's SBX is a microprocessor-based voice application platform that supports multiple applications simultaneously on a port-by-port basis. Included with every Interalia's SBX is the XMUCOM+ administration software, a windows-based configuration and communication software that helps administrators directly manage Interalia's SBX systems onsite. The software has an easy to use GUI interface, editor browser and pull-down menus loaded with all the tools administrators need to schedule messages, simultaneously download configuration files/messages to multiple Interalia's SBX systems, and to review statistics. Typical SBX applications include:

- ACD/RAN announcements
- Auto attendant
- Information Lines
- Music on hold (MOH)

2. General Test Approach and Test Results

The test approach was to validate the correct operation of typical interactive voice response applications such as Recorded Announcements (RAN) and Auto Attendant. The following tests were performed to insure full interoperability between the SBX and the CS1000E. The tests were all functional in nature and performance testing was not included. All the test cases passed successfully.

2.1. Interoperability Compliance Testing

The interoperability compliance test included both feature functionality and serviceability testing. The feature functionality testing focused on verifying that the voice application response is activated in various scenarios. The testing included:

- Connectivity of SBX to CS1000E
 Testing of the connection between the SBX and the CS1000E and the surrounding hardware (IP sets)
- 2. Music on hold from internal/external callers on the CS1000E. Testing on the ability to hear Music during the following call scenario
 - Caller placed on hold/transferred
 - Caller being in an Automatic Call Distribution Queue (ACDQ)
- 3. Playing SBX ACD Announcements for calls entering an ACDQ on the CS1000E internally and externally
 - ACDQ and agents are configured on the CS1000E with two RAN routes setup for Announcements
 - Calls are made internally to the ACDQ and announcements are heard from the SBX
 - Calls are made externally to the ACDQ and announcements are heard from the SBX
- 4. Playing IVR services from callers both internally and externally

- A group hunt is setup to include the analog extensions on the FALC connected to the SBX
- Callers both internally and externally call the group hunt pilot DN to hear the IVR services
- 5. Recovery of the SBX
 - The SBX was disconnected are reconnected

Note: The compliance testing focused on testing using only analog connections between the SBX and the CS1000E. The failure/recovery testing focused on verifying the ability of the SBX to recover from disconnection such as power supply failure.

2.2. Test Results

The test approach was to validate the correct operation of typical interactive voice response applications such as ACD Announcements, etc. The following results were obtained:

- Confirmation that interactive voice messages are played as expected in different call scenarios
- Confirmation that messages are routed successfully as expected
- Confirmation of good quality audio in all test cases
- Successful recovery of SBX after failover testing

The tests were all functional in nature and performance testing was not included. All the test cases passed successfully.

2.3. Support

Technical support can be obtained for Interalia SBX as follows;

Email: <u>support@interalia.com</u>
Website: <u>www.interalia.com</u>
Phone: +44 (0) 1476594207

• Phone: +1 800 531 0115 (Toll Free)

3. Reference Configuration

Figure 1 shows the network topology during compliance testing. The SBX is connected using analog connections to a Universal Trunk card and a FALC card on the Communication Sever 1000E.

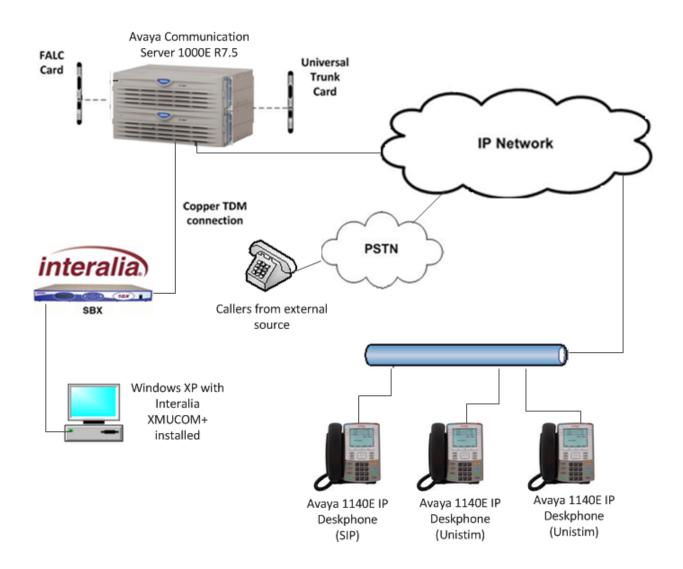


Figure 1: Network Topology and Connectivity for Interalia SBX and Avaya Communication Server 1000E

4. Equipment and Software Validated

All the hardware and associated software used in the compliance testing is listed below.

Equipment	Software Version
Avaya Communication Server 1000E	Avaya Communication Server 1000E R7.5 SP1
CPPM	
Avaya Universal Trunk Card	NT8D14BB R07 NNTM1016LZED 9806
Avaya FALC Card	NT5K02QC
Avaya S8800 Server	Avaya Aura® System Manager R6.1 SP0
Avaya 1140E IP set	UNIStim 4.3
Interalia SBX	Firmware version: V1.35
	Software: XMUCOM+ V7.25 on Windows XP

Table 1: Hardware and Software Version Numbers

Note: For a complete list of the patches installed on the CS1000E see **Appendix**.

5. Configure Avaya Communication Server 1000E

Configuration and verification operations on the CS1000E illustrated in this section were all performed using terminal access over a serial link to a TTY port on the CS1000E using the program "Reflections". The information captured in this section shows the changes that are needed to add Analog Music trunks, RAN Trunks and analog line extensions to an existing CS1000E system. However it does not show the complete setup of ACDQ's and all external trunks and routes as it is implied a working system is already in place. 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:

- Creating a music route and a music trunk on the Universal Trunk Card
- Changing the FTR data in the customer data block to add the new music route as the system music source
- Changing the route setup for the incoming route (for external callers) to add the Music Route
- Changing the ACDQ to add the new music route to the queue
- Creating two RAN routes and two RAN trunks on the Universal trunk card
- Changing the ACDQ to add the RAN routes for a first RAN announcement and a second RAN announcement
- Creating analog extensions on the FALC card
- Creating a Group Hunt List Pilot DN
- Placing the analog extensions into the Group Hunt List

The configuration of the PRI interface to the PSTN is outside the scope of these Application Notes.

5.1. Creating a Music Route and a Music Trunk

In order to create a new music (MUS) route (RDB), overlay 16 on the CS1000E is used. Use the NEW command in LD 16 to create a new music route. Subsets of these commands are illustrated below.

LD 16

Prompt	Response	Description
>	LD 16	Enter Overlay 16
REQ	NEW	Create New
TYPE	RDB	Route Data Block
CUST	0	Customer Number as defined in LD15
ROUT	10	Route Number
TKTP	MUS	Route Type

In order to create music trunks, overlay 14 on the CS1000E is used. Use the **NEW** command in **LD 14** to create a new music trunk on the Universal Trunk Card. This trunk will be a member of the new music route; in this case, route **10**. Subsets of these commands are illustrated below.

LD 14

Prompt	Response	Description
>	LD 14	Enter overlay 14
REQ	NEW	Create New
TYPE	MUS	Music Trunk
TN	[L S C U]	Loop Shelf Card Unit
CUST	0	Customer Number as defined in LD15
RTMB	10 1	Route number and Member number

5.2. Changing the FTR data in the Customer Data Block

Changes to the system music for on hold music or music played during a transfer is changed in overlay 15 on the CS1000E. Use the CHG command in LD 15 to change the CDB (Customer Data Block) to add the new music route as the music source for the CS1000E system. Under the section FTR DATA a change will be made to the MUS feature inputting yes and then inputting your music route number to MUSR. The number set is 10 in the example below. This will correspond to the music route set in Section 5.1. Subsets of these commands are illustrated below.

LD 15

Prompt REO	Response CHG	Description Change
TYPE	FTR DATA	Feature Data
MUS	YES	Enhanced Music for telephones
MUSR	10	Music Route for telephones

Repeat the above process to add a different music route for each music source required. Changing this route in the FTR DATA will be a system wide change.

5.3. Adding a Music Source to External Route

To make changes to existing routes to allow music on the route, overlay 16 is used on the CS1000E. Use the command CHG in LD 16 to add the music sources to existing routes, for example an external route for external calls to hear when placed on hold, etc. In LD 16 change the prompt MUS as shown below to reflect the music route. The number set is 10 in the example below. This will correspond to the music route set in Section 5.1. Subsets of these commands are illustrated below.

LD 16

Prompt	Response		Description
>	LD 16		Enter Overlay 16
REQ	CHG		Change
TYPE	RDB		Route Data Block
CUST	0		Customer number as defined in LD15
ROUT	42		Route Number
TKTP	TIE	Trunk	Туре
MUS	YES		Music on hold to be provided
MRT	10		Music Route Number

5.4. Changing the ACDQ to add the Music Source

To make any changes on an ACDQ, overlay 23 is used on the CS1000E. Use the command CHG in LD 23 to add the music route to the ACDQ. Change the prompt MURT to reflect the new route. The number set is 10 in the example below. This will correspond to the music route set in Section 5.1. Subsets of these commands are illustrated below.

LD 23

Prompt	Response	Description
>	LD 23	Enter overlay 23
REQ	CHG	Change
TYPE	ACD	Update the ACD queue
CUST	0	Customer number as defined in LD15
ACDN	xxxx	ACD DN
MURT	10	Music Route Number

5.5. Creating RAN Routes and RAN Trunks

In order to create a new **RAN** route, overlay 16 on the CS1000E is used. Use the **NEW** command in **LD 16** to create a new RAN route. Subsets of these commands are illustrated below.

LD 16

Prompt	Response	Description
>	LD 16	Enter Overlay 16
REQ	NEW	Create New
TYPE	RDB	Route Data Block
CUST	0	Customer Number as defined in LD15
ROUT	11	Route Number
TKTP	RAN	Route Type

In order to create **RAN** trunks, overlay 14 on the CS1000E is used. Use the **NEW** command in **LD 14** to create a new RAN trunk on the Universal Trunk Card. This trunk will be a member of the new RAN route; in this case, route **11**. Subsets of these commands are illustrated below.

LD 14

Prompt	Response	Description
>	LD 14	Enter overlay 14
REQ	NEW	Create New
TYPE	RAN	RAN Trunk
TN	[L S C U]	Loop Shelf Card Unit
CUST	0	Customer Number as defined in LD15
RTMB	11 1	Route number and Member number

5.6. Adding the RAN routes to the ACDQ

To make any changes on an ACDQ, overlay 23 is used on the CS1000E. Use the command CHG in LD 23 to add the RAN routes to the ACDQ. Change the prompt FRRT and SRRT to reflect the new routes.

Note: There are two RAN routes created for the compliance testing, Route 11 and Route 12. These are used for the first RAN announcement and the second RAN announcement. The timers in seconds are added underneath the route prompt. The **FRT** or first RAN timer is the delay in seconds between the two announcements and **SRT** or second RAN timer is the frequency that the second RAN announcement is played. Music on hold is heard during the RAN announcements due to the setup in **Section 5.4**

LD 23

Prompt	Response	Description
>	LD 23	Enter overlay 23
REQ	CHG	Change
TYPE	ACD	Update the ACD queue
CUST	0	Customer number as defined in LD15
ACDN	XXXX	ACD DN
FRRT	11	First RAN route
FRT	10	First RAN Route Timer
SRRT	12	Second RAN route

5.7. Creating analog extensions

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A number of analog extensions are created to connect to the IVR Auto Attendant channels on the SBX. The number of Analog extensions on the CS1000E created depends on the number of channels that are configured for IVR Auto Attendant on the SBX. In order to create a new analog extension, overlay 20 on the CS1000E is used. Use the **NEW** command in **LD 20** to create new analog extensions. The set type will be **500**. The Class of service (**CLS**) must allow transfer (**XFA**). Subsets of these commands are illustrated below.

LD 20

Prompt	Response	Description
>	LD 20	Enter Overlay 20
REQ	NEW	Create New
TYPE	500	Analog set
CUST	0	Customer Number as defined in LD15
TNB	4 0 7 0	Loop Shelf Card Unit
DN	XXXX	Extension Number
CLS	XFA	Transfer Allowed

5.8. Creating a Group Hunt list Pilot DN

If there are a number of channels on the SBX associated with the same service, then these channels can be added to a group hunt on the CS1000E in order to access them using a single route point or Pilot DN. For compliance testing, four ports were used for IVR front line services and these corresponding extensions were placed into a Group Hunt List. To create a Pilot DN, overlay 57 is used on the CS1000E. Use the CHG command in LD 57. Subsets of these commands are listed below.

LD 57

ED C		
Prompt	Response	Description
>	LD 57	Enter Overlay 57
REQ	CHG	Change existing
TYPE	FFC	Flexible Feature Codes Data Block
CODE	PLDN	Pilot DN (Group hunt access DN)
USE	GPHT	Use is Group Hunt
LSNO	x	Use the list number created section 5.4
HTYP	LIN/RRB	Linear or Round Robin

5.9. Adding the Analog extensions into the Group Hunt Created

To create a group hunt list, overlay 18 is used. Use the **NEW** command in **LD 18** to create a new group hunt list. Subsets of these commands are listed below.

LD 18

Prompt	Response	Description
>	LD 18	Enter Overlay 18
REQ	NEW	Create new
TYPE	GHT	Group Hunt
LSNO	1-8190	Group Hunt List Number
CUST	0	Customer Number as defined in LD15
SIZE	1-96	Amount of entries in the GHT
STOR	х у	x is the entry no. & y is the Ext no.

Note: The **STOR** entry above donates each extension number in the Group Hunt List. See the example below as what was used in the compliance testing. 3200 was the Pilot DN and 3220 – 3223 were the analog extensions included in the group hunt.

```
PLDN 3200
STOR 0 3220
STOR 1 3221
STOR 2 3222
STOR 3 3223
```

6. Physical Analog Connections

6.1. Connecting the Interalia SBX to the Universal Trunk Card

The Universal Trunk Card has a maximum of 8 trunk connections. The connections to the Interalia are made using physical copper connections to the Universal Trunk Card. The SBX has RJ45 sockets, which are then connected to the Universal Trunk card via a patch panel or Krone block.

6.1.1. Communication Server CS1000E Wiring

An Amphenol cable from the CS1000E is punched onto a Krone Block where the pin layout is as follows for the first 4 units.

Trunk Number	Back- plane Pin	Signal			Back-	Signal		
		RAN mode	Paging mode	Other modes	plane Pin	RAN mode	Paging mode	Other modes
0	12A	Tip	Tip	Tip	12B	Ring	Ring	Ring
	13A	CP	Α	N/A	13B	MB	RG	N/A
1	14A	Tip	Tip	Tip	14B	Ring	Ring	Ring
	15A	CP	Α	N/A	15B	MB	RG	N/A
2	16A	Tip	Tip	Tip	16B	Ring	Ring	Ring
	17A	CP	Α	N/A	17B	MB	RG	N/A
3	18A	Tip	Tip	Tip	18B	Ring	Ring	Ring
	19A	CP	Α	N/A	19B	MB	RG	N/A
4	62A	Tip	Tip	Tip	62B	Ring	Ring	Ring
	63A	CP	Α	N/A	63B	MB	RG	N/A

6.1.2. Interalia SBX to Communication Server 1000E wiring

4 wires from the SBX are connected to 4 wires from the CS1000E. Below is the pin-out selection for this connection type.

PABX Signal	Announcer Signal	Line 1 Pin- Color	Line 2 Pin- Color	Line 3 Pin- Color	Line 4 Pin- Color	Line 5 Pin- Color	Line 6 Pin- Color	Line 7 Pin- Color	Line 8 Pin- Color
Ring	Ring	1 - Blu/Wht	4 - Brn/Wht	7 - Org/Red	10 - Slt/Red	13 - Grn/Blk	16 - Blu/Yel	19 - Brn/Yel	22 - Org/Vlt
Tip	Tip	26 - Wht/Blu	29 - Wht/Brn	32 - Red/Org	35 - Red/Slt	38 - Blk/Grn	41 - Yel/Blu	44 - Yel/Brn	47 - Vlt/Org
CP/E	CP1	27 - Wht/Org	30 - Wht/Slt	33 - Red/Grn	36 - Blk/Blu	39 - Blk/Brn	42 - Yel/Org	45 - Yel/Slt	48 - Vlt/Grn
Ground	CP2	2 - Org/ Wht	5 - Slt/Wht	8 - Grn/Red	11 - Blu/Blk	14 - Brn/Blk	17 - Org/Yel	20 - Slt/Yel	23 - Grn/Vlt

The figure below shows the first RAN trunk on unit 3 or TN 4 0 4 2 on the CS1000E. The physical connection to the Universal Trunk Card is made using 4 wires from the SBX RJ45 sockets, which are then connected to the Universal Trunk card via a patch panel or Krone block. **Figure 2** shows the physical connections made between the SBX and the CS1000E

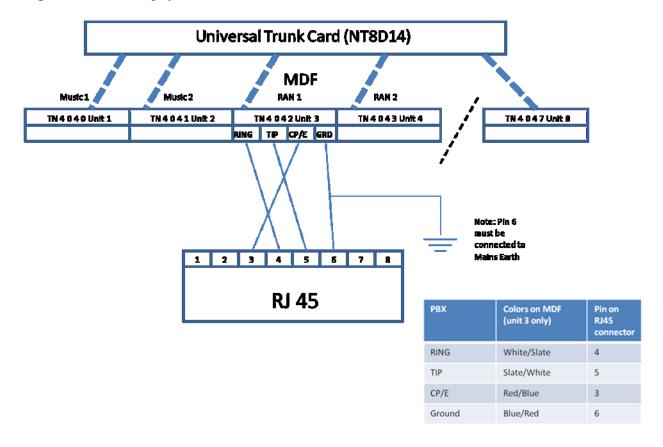


Figure 2 Physical Connections

6.2. Connecting the Interalia SBX to the FALC Card

The connection to the FALC card is a straight Tip/Ring connection using a RJ45 cable from the SBX to each unit on the FALC card via a patch panel or Krone block.

7. Configure Interalia SBX

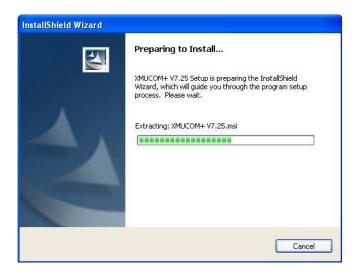
Included with every SBX is the XMUCOM+ administration software, a windows-based configuration and communication software that helps administrators directly manage their SBX systems onsite. The following section documents the necessary steps taken to configure the SBX.

7.1. Installing Interalia SBX Software

The installation of the SBX software is loaded from a CD containing the software. After placing the CD into a PC it automatically starts to the following screen. Click on **Install XMUCOM+** (XMU+/SBX) highlighted.



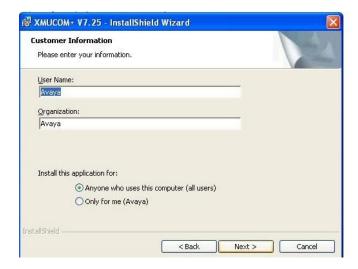
A Preparing to Install screen appears below.



A welcome screen appears. Click **Next** to continue with the install.



On the Customer Information screen, enter User Name and Organization and click Next.



Choose the default destination on the **Destination Folder** screen and click **Next.**



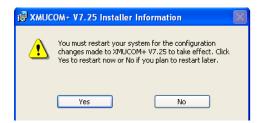
Review the selected settings and click Install.



A screen appears to indicate the successful install of the product. Click **Finish** to complete it.

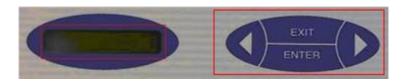


Restart the PC to allow configuration changes to take effect. Choose the Yes button to restart.



7.2. Setting the IP address on the Interalia SBX

The IP address of the SBX is set from the menu on the front of the box by navigating through the menu using the left and right arrows and clicking **Enter** for each section that needs changing as highlighted below.

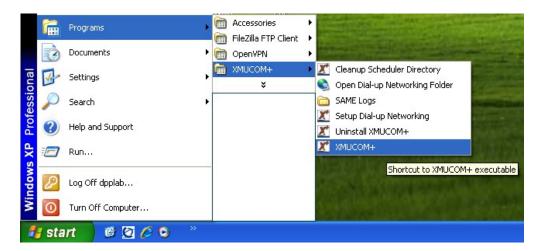


To set the IP information carry out the following steps:

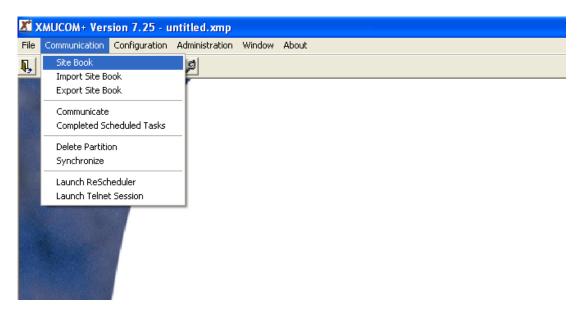
- Navigate to Main System Menu and press Enter
- Navigate to **System Communications** and press **Enter**
- Navigate to Communications Ethernet and press Enter
- Navigate to **Ethernet IP address**, enter the IP address and press **Enter**
- Navigate to Ethernet IP mask, enter the Subnet Mask and press Enter
- Navigate to **Gateway**, enter the Default Gateway and press **Enter**

7.3. Initial Configuration of the Interalia SBX to create a new site

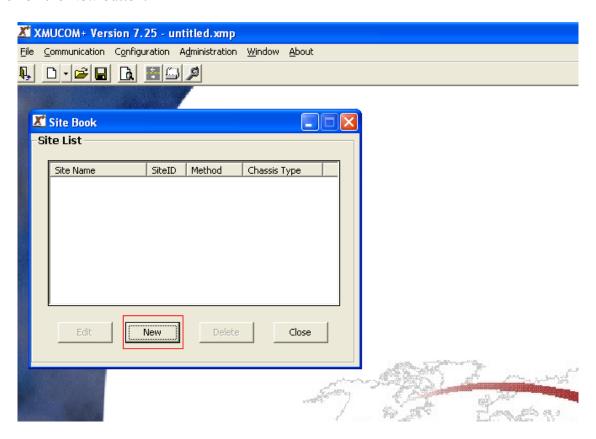
Once installed, the XMUCOM+ program can be run from a shortcut on the desktop or by selecting the program as shown below.



To create a Site Book on the Interalia SBX, choose the **Communication** Menu and select **Site Book** from the drop down menu.

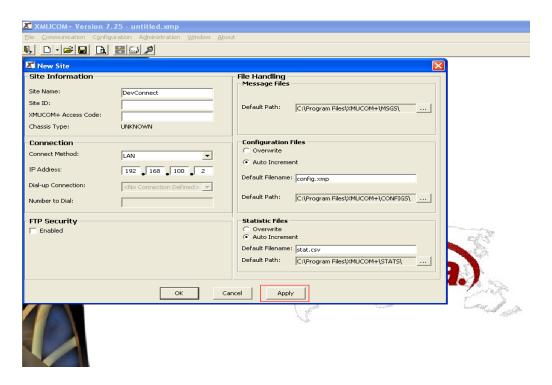


Click on the New button.



Enter the following information then select **Apply** followed by **OK**

- Site Name
- Connect Method (LAN was used for Compliance testing)
- IP Address



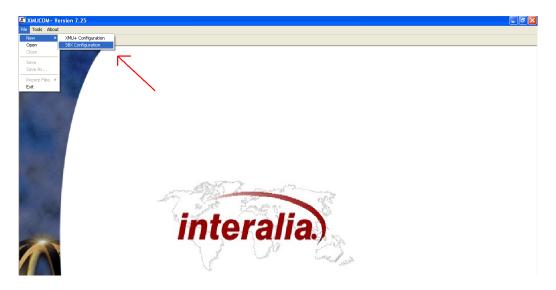
Click the Close button.



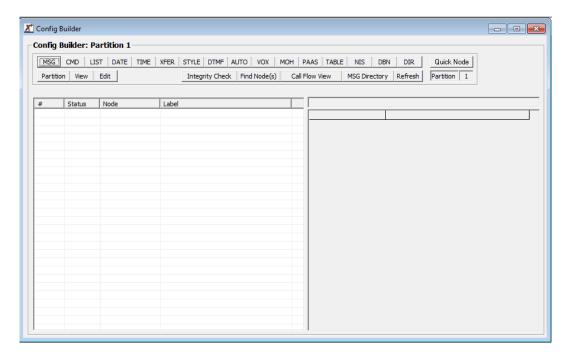
7.4. Configuring the Recorded Announcements (RAN) on the Interalia SBX

Select File \rightarrow New \rightarrow SBX Configuration.

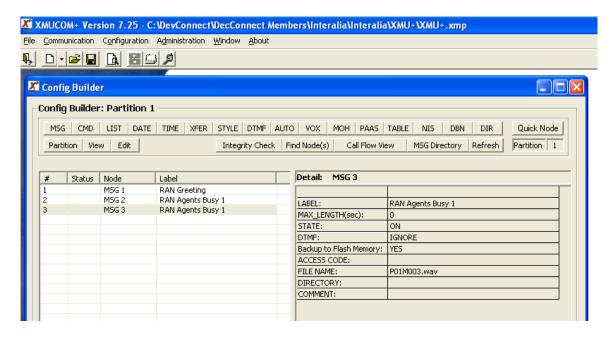
Note: The same program is used to configure the SBX and XMU+ and the same screen options appear for both.



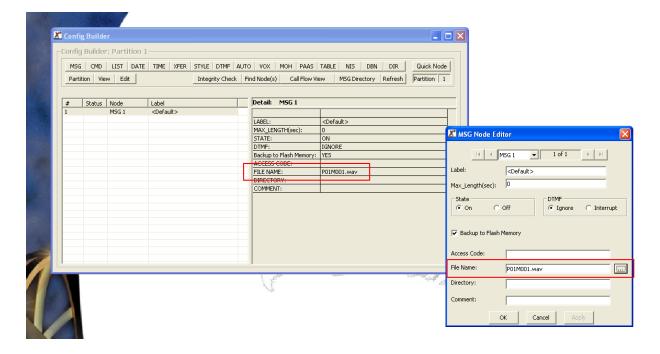
The software then opens with the following blank Config Builder.



To create 3 simple messages as RAN announcements for an initial greeting and two waiting in queue announcements, simply click on the **MSG** button as highlighted below.



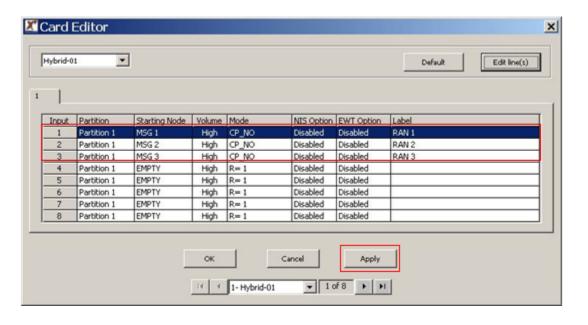
To add specific announcement messages, double click on **FILE NAME** highlighted below. This opens the **MSG Node Editor** window. Beside the **File Name**, browse to the saved announcement in WAV format and click **OK**.



To assign these messages to the SBX ports, enter the SBX line configuration as shown below which will then open the **Card Editor**.



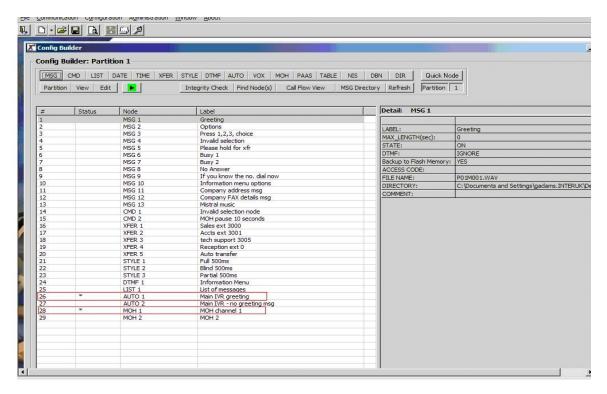
The SBX card set up shows only the first 3 ports in use as the RAN announcements that were previously setup. Select each **MSG** and click the **Apply** button to assign the announcements. These can be heard from the PBX by dialing the corresponding route access codes.



7.5. Configuring the Auto Attendant on the Interalia SBX

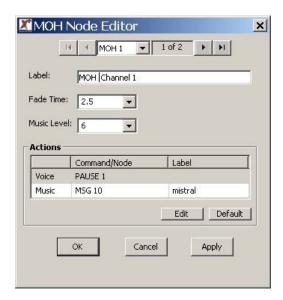
Open the XMUCOM+ program installed from the desktop shortcut as before. The **Config Builder** form is displayed which is the main IVR\Auto-Attendant configuration screen. One can populate this form with music and message files as well as IVR greetings. A completed form is displayed below.

Note the highlighted entries with an * as their **Status**. Once the configuration is built, the line card needs to be set to Auto 1 (shown on the next screen below) as this is the starting node for the IVR prompts.



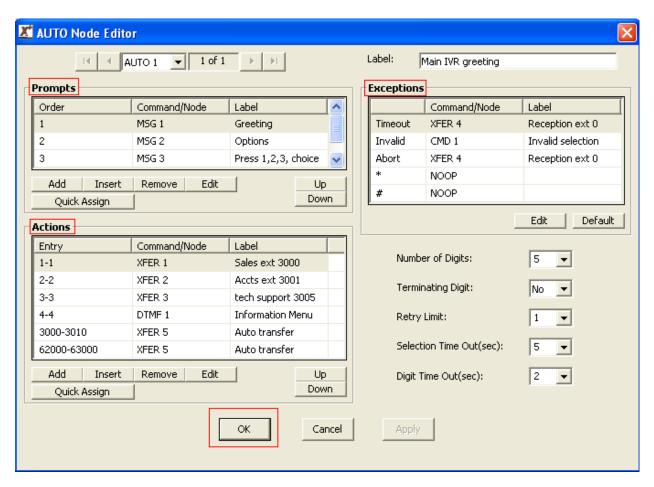
Double-click the entry for the Node displaying MOH 1 to configure the Music on Hold settings. Below shows what was used during testing.

Note: Mistral music will play in a continuous loop to the PBX connecting to the Music Trunk created in **Section 5.1**

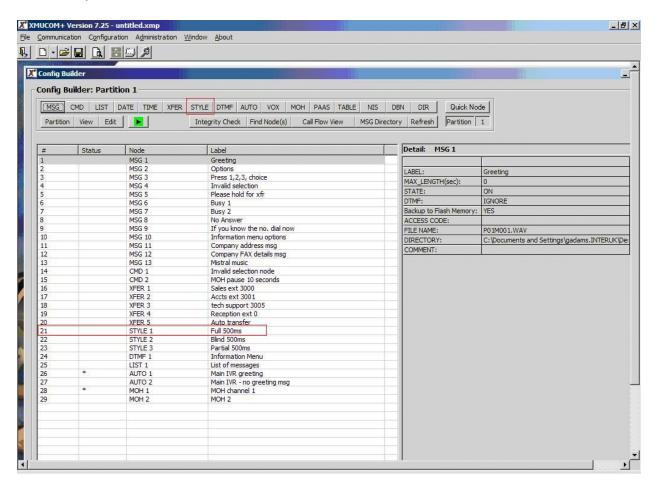


Double-click the entry for the **Node** displaying **AUTO 1** from the **Config builder** screen above to open it for editing and the **AUTO Node Editor** screen appears as shown below. It displays set **Prompts**, **Actions** and **Exceptions**.

Note: the example below shows what was used during testing.

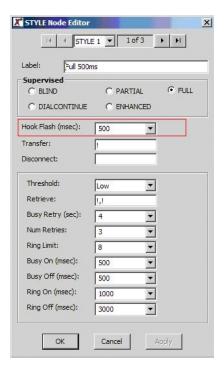


In order to manage a call, the SBX will monitor for a busy or no answer indication, this is achieved by setting the Style node. Create a style node through the **STYLE** tab as highlighted below. In the configuration builder, note the three transfer styles that require setting (Full, Blind, and Partial).

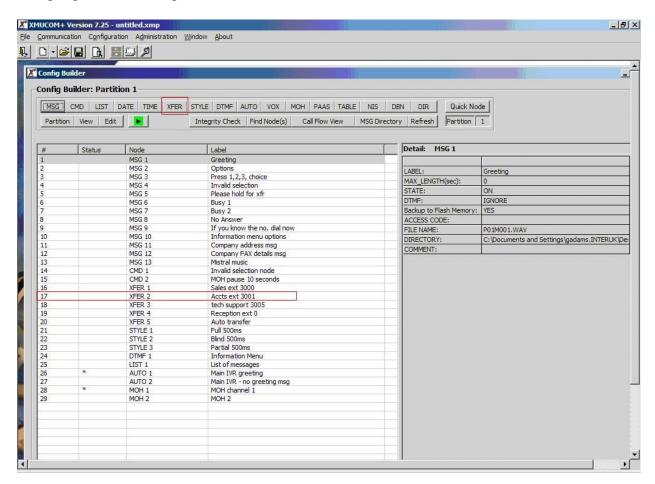


Double click the Style 1 entry from the Config builder screen which is highlighted in the screen above as Line 21. The Style 1 entry below will appear so the settings can be reviewed and edited. The transfer style shows the **Hook Flash (msec)** being set as **500ms** in order to perform the transfer / retrieval of a call. To detect the Busy status, the **Busy On (msec)** is set to **500**, the **Busy Off (msec)** is set to **500**, the **Ring On (msec)** is set to **1000**, and the **Ring Off (msec)** is set to **3000**.

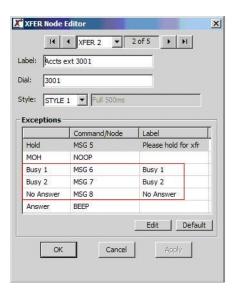
Note: The settings below were used during DevConnect Compliance testing, but may need to be changed depending on specific country settings.



During the monitoring of a call, it is possible to inform the caller of their progress. In the main configuration builder window you can edit calls transfers, i.e. Xfer 2. Click on the **XFER 2** node as highlighted in the diagram below.



By double clicking the **XFER 2** entry from the Config builder screen highlighted in the screen above, the **XFER 2** entry below will appear so the settings can be reviewed and edited. If the extension is busy, messages 6 and 7 (**MSG 6** and **MSG 7**) will play according to the Xfer Style (Num Retries). If there is no answer, then the **No Answer** message (**MSG 8**) is set to play.

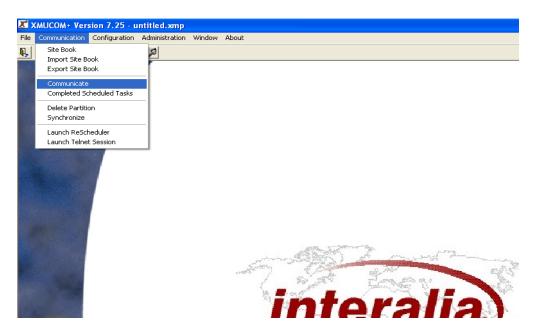


Note: Whilst carrying out the fully supervised transfers, the status mode on the front of the SBX display will change to indicate the different call states e.g. B, b, B etc or R, r, R.

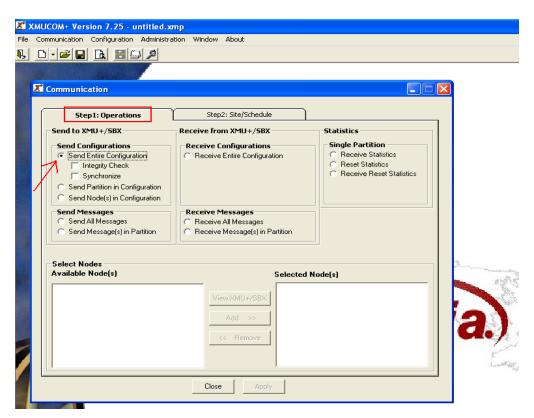


7.6. Downloading configuration to the Interalia SBX

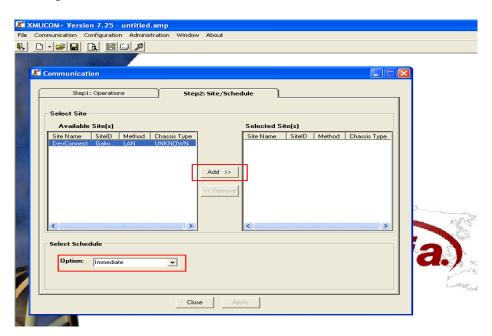
Choose the Communicate from the Communication menu.



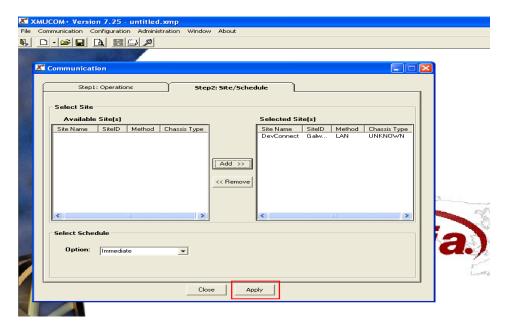
In the Communication window, select Tab Step 1: Operations. Check the Send Entire Configuration button.



Select Tab **Step2: Site/Schedule** and choose the site followed by clicking the **Add** >> button. **Select Schedule Option** can be set to **Immediate**.



Click the **Apply** button to download the configuration to the SBX.



The download process could take some time depending on the speed of the selected communication connection and the number of messages you are downloading. XMUCOM+ will display a response dialog box while it is sending the messages, and a notification when all messages are sent.

Note: If this is the first time downloading to the XMU+, the Chassis Type will be unknown and a warning window will appear, Click the **OK** button to continue with the download.



8. Verification Steps

This section provides the tests that can be performed to verify correct configuration of the CS1000E and SBX.

8.1. Verify Avaya Communication Server 1000E

The following steps can ensure that the communication between the CS1000E and the SBX is functioning correctly.

8.1.1. Status of the Analog Trunks on Avaya Communication Server 1000E

Check the status of the analog trunks setup in **Sections 5.1** and **5.5** by running the command **STAT LSC (loop shelf card)** in overlay 20 as shown below to ensure they all appear **idle.**

LD 20

Prompt	Response	Description
>	LD 20	Enter Overlay 20
REQ	STAT 4 0 4	Stat Loop Shelf Card

Example:

```
REQ: stat 4 0 4
00 = UNIT 00 = IDLE
                                 (TRK) (MUS
                                             OWK )
01 = UNIT 01 = IDLE
                                 (TRK) (MUS OWK )
02 = UNIT 02 = IDLE
                                 (TRK) (RAN AUD)
03 = UNIT 03 = IDLE
                                 (TRK) (RAN AUD)
04 = UNIT 04 = IDLE
                                 (TRK) (RAN AUD)
05 = UNIT 05 = IDLE
                                 (TRK) (RAN AUD)
06 = UNIT 06 = UNEQ
07 = UNIT 07 = UNEQ
```

8.1.2. Status of the analog extensions on Avaya Communication Server 1000E

Check the status of the analog extensions setup in **Section 5.7** by running the command **STAT LSC (loop shelf card)** in overlay 20 as shown below to ensure they all appear **idle.**

LD 20

Prompt	Response	Description
>	LD 20	Enter Overlay 20
>	STAT 4 0 4	Stat Loop Shelf Card

Example:

```
REQ: stat 4 0 7

00 = UNIT 00 = IDLE (500)

01 = UNIT 01 = IDLE (500)

02 = UNIT 02 = IDLE (500)

03 = UNIT 03 = IDLE (500)

04 = UNIT 04 = UNEQ

05 = UNIT 05 = UNEQ

06 = UNIT 06 = UNEQ

07 = UNIT 07 = UNEQ
```

8.2. Verify Interalia SBX Status

The **Status** window, as highlighted below, on the display on the front of the SBX can be used to verify the communication of the SBX. It is accessible by pressing the right arrow to enter the **Status** window. This shows the call flow as calls are made and received by the interactive voice response system.



9. Conclusion

These Application Notes describe the configuration steps required for Interalia SBX to successfully interoperate with Avaya Communication Server 1000E using Analog trunks on a Universal Trunk Card and analog extensions on a FALC Card. All functionality and serviceability test cases were completed successfully.

10. Additional References

This section references the Avaya and Interalia product documentation that are relevant to these Application Notes. Product documentation for Avaya products may be found at http://support.avaya.com

- [1] Software Input Reference Administration Avaya Communication Server 1000, Release 7.5; Document No. NN43001-611_05.02, Dec 2010
- [2] Administering Avaya Aura® Session Manager, Doc # 03603324, Issue 1 Release 6.1

The Interalia documentation can be found at the following location:

[1] http://www.interalia.com/Products/SBX/XMU-Overview

Appendix

CS1000E Software and patch list

VERSION 4121 RELEASE 7 ISSUE 50 Q +

DepList 1: core Issue: 01 (created: 2011-03-15 10:26:33 (est))

IN-SERVICE PEPS

DATCH DI	EE# NAME	DATE	EII ENIAME	SPECINS
		21112		~
3505 ISS1:10	F1 p30595_1	14/06/2011	p30595_1.cpl	NO
5294 ISS1:10	F1 p30565_1	14/06/2011	p30565_1.cpl	NO
2106 ISS1:10	F1 p30550_1	14/06/2011	p30550_1.cpl	NO
7618 ISS1:10	F1 p30594_1	14/06/2011	p30594_1.cpl	NO
2365 ISS1:10	F1 p30707_1	14/06/2011	p30707_1.cpl	NO
3623 ISS1:10	F1 p30731_1	14/06/2011	p30731_1.cpl	YES
)255 ISS1:10	F1 p30591_1	14/06/2011	p30591_1.cpl	NO
2626 ISS2:10	F1 p30560_2	14/06/2011	p30560_2.cpl	NO
7566 ISS1:10	F1 p30766_1	14/06/2011	p30766_1.cpl	NO
.980 ISS1:10	F1 p30618_1	14/06/2011	p30618_1.cpl	NO
7461 ISS1:10	F1 p30597_1	14/06/2011	p30597_1.cpl	NO
9821 ISS1:10	F1 p30619_1	14/06/2011	p30619_1.cpl	NO
2409 ISS1:10	F1 p30621_1	14/06/2011	p30621_1.cpl	NO
3073 ISS1:10	F1 p30588_1	14/06/2011	p30588_1.cpl	NO
0521 ISS1:10	F1 p30709_1	14/06/2011	p30709_1.cpl	YES
0722 ISS1:10	F1 p30784_1	14/06/2011	p30784_1.cpl	YES
0134 ISS1:10	F1 p30698_1	14/06/2011	p30698_1.cpl	YES
5981 ISS1:10	F1 p30613_1	14/06/2011	p30613_1.cpl	NO
	3505 ISS1:100 3294 ISS1:100 3106 ISS1:100 3618 ISS1:100 3623 ISS1:100 3623 ISS1:100 3626 ISS2:100 3626 ISS2:100 3626 ISS1:100 3621 ISS1:100 3621 ISS1:100 3621 ISS1:100 3622 ISS1:100 3623 ISS1:100 3624 ISS1:100 3624 ISS1:100 3625 ISS1:100 3626 ISS1:100 3627 I	18505 ISS1:10F1 p30595_1 p30595_1 p30595_1 p30565_1 p30565_1 p30565_1 p30565_1 p30550_1 p30550_1 p30594_1 p30594_1 p30594_1 p30594_1 p30623 ISS1:10F1 p30731_1 p30731_1 p30591_1 p30560_2 p3066_1 p30560_2 p3066_1 p30618_1 p30618_1 p30618_1 p30618_1 p30619_1 p30619_1 p30619_1 p30619_1 p3073 ISS1:10F1 p30619_1 p3073 ISS1:10F1 p30588_1 p30722 ISS1:10F1 p30709_1 p30722 ISS1:10F1 p30784_1 p30698_1 p30698_1	14/06/2011 14/	14/06/2011 p30595_1.cpl p30595_1.cpl p30565_1.cpl p30565_1 p30565_1 p30565_1.cpl p30565_1 p30565_1.cpl p30550_1 p30550_1.cpl p30550_1 p30550_1.cpl p30550_1 p30550_1.cpl p30550_1 p30594_1 p30594_1.cpl p30550_1.cpl p30550_1 p30707_1 p30707_1.cpl p30707_1 p30707_1.cpl p30731_1 p30707_1.cpl p30731_1 p30731_1.cpl p30550_1 p30591_1 p30591_1.cpl p30560_2 p30591_1 p30591_1.cpl p30560_2 p30560_2 p30560_2 p30560_2 p30660_1 p30660_2 p30660_

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