Fax Server & Auto Attendant IVR

Interactive Voice Response (IVR)

Session Initiation Protocol (SIP)

# Installation Guide



# Microsoft Partner

Skype for Business



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# **Table of Contents**

1	Intro	oduction	11
	1.1	Fax Server	11
		1.1.1 Features and Benefits	11
	1.2	Auto Attendant IVR	
		1.2.1 Features and Benefits	
	1.3	About this Guide	
	1.4	Call Flow Descriptions 1.4.1 Incoming Fax2Mail Flow with Fax Detection	
		1.4.2 Outgoing Mail2Fax Flow	
		1.4.3 Incoming Call Controlled by Auto Attendant Call Flow	16
2	Prer	equisites	17
	2.1	Installation on the Customer's Server	17
	2.2	Adding Fax AA IVR Application VM to the SBA	18
	2.3	Obtaining the IP Address of the Virtual Machine	28
3	Insta	alling the Fax Server	31
	3.1	Installing the Fax Server	31
	3.2	Setting up Fax Detection on AudioCodes' Gateway	39
		3.2.1 How Fax Detection and Fax Reroute Work	
		3.2.2 Configuring Fax Detection and Fax Reroute 3.2.2.1 Fax Call Flow Sample	
	3.3	Configuring the Fax Server's Ports	
	3.4	Configuring LDAP Settings	
	3.5	Activating the Fax Server License	44
	3.6	Setting the Neevia License	
	3.7	Backing Up and Restoring Configuration Settings	
	3.8	Changing Fax Server E-mail Customization	
	3.9	Changing the Server IP Address	
	3.10	Disabling the Windows Firewall and Anti-Virus	
4	Insta	alling Auto Attendant IVR	49
	4.1	Before Installing Auto Attendant IVR	49
	4.2	Auto Attendant IVR Installation	
	4.3	Activating the IVR Server License	
	4.4	Adding a New Language Pack	60
Α	Con	figuring Exchange SMTP Connector	61
В	Insta	alling the Skype for Business Local Storage	63
С	Micr	osoft Windows Update	67
D	Run	ning Anti-Virus Software	69
	D.1	Running Anti-Virus Software on FAX AA IVR Components	69
	D.2	Running Ant-Virus software on Microsoft Skype for Business Components	

# 

Е	Firewall Settings on Skype for Business	.71
F	Configuring the Windows Server for Microsoft Office 2013	.73
G	Fax Conversion Troubleshooting	.75

# List of Figures

Figure 4.4. Cell Flow Incoming Fey/Meil with Fey Detection	40
Figure 1-1: Call Flow - Incoming Fax2Mail with Fax Detection	.13
Figure 1-2: Call Flow - Outgoing Mail2Fax	.15
Figure 1-3: Call Flow – Incoming Call Controlled by Auto Attendant	
Figure 2-1: Server Manager	
Figure 2-2: Add Roles Wizard - Select Server Roles	.19
Figure 2-3: Add Roles Wizard - Hyper-V	.19
Figure 2-4: Add Roles Wizard - Create Virtual Networks	
Figure 2-5: Add Roles Wizard - Confirm Installation Selections	
Figure 2-6: Add Roles Wizard - Installation Results	
Figure 2-7: Hyper-V Manager	
Figure 2-8: New Virtual Machine Wizard - Before You Begin	
Figure 2-9: New Virtual Machine Wizard - Specify Name and Location	
Figure 2-10: New Virtual Machine Wizard - Assign Memory	
Figure 2-11: New Virtual Machine Wizard - Configure Networking	
Figure 2-12: New Virtual Machine Wizard - Connect Virtual Hard Disk	.24
Figure 2-13: New Virtual Machine Wizard - Open	.24
Figure 2-14: New Virtual Machine Wizard - Completing the New Virtual Machine Wizard	.25
Figure 2-15: Hyper-V Manager	.25
Figure 2-16: Processor Settings	
Figure 2-17: Automatic Start Action	
Figure 2-18: Hyper-V Manager – Fax AA IVR	
	.20
Figure 2-19: Fax AA IVR on localhost	
Figure 2-20: Administrator Login	
Figure 2-21: Windows Main Screen	
Figure 2-22: Run	
Figure 2-23: Administrator	.30
Figure 2-24: IP Config	.30
Figure 3-1: Setup - Fax Server / Auto Attendant IVR	
Figure 3-2: Setup - Fax Server Installation	
Figure 3-3: Installing Core	
Figure 3-4: Installation Progress	
Figure 3-5: Neevia Document Converter Pro - Settings - Folders	
Figure 3-6: Neevia Document Converter Pro - Input Folder	.34
Figure 3-7: Neevia Document Converter Pro - Edit	
Figure 3-8: Neevia Document Converter Pro - Import Configuration File	
Figure 3-9: Restart Services	
Figure 3-10: Welcome to the Application Web Administration	.37
Figure 3-11: Fax Server Web Administration - Welcome	.37
Figure 3-12: Coders Table	.40
Figure 3-13: Outbound IP Routing Table	.40
Figure 3-14: Adding a Rule	.41
Figure 3-15: Adding a Rule - Action	
Figure 3-16: Web Interface - License Activation	
Figure 3-17: FAX License Information – Getting the Key	
Figure 3-18: Neevia Document Converter Pro - Help - About	
Figure 3-19: Neevia Document Converter Pro - Register	
Figure 3-20: Restarting 'Fax Converter' and 'Email To Fax' Services	
Figure 3-21: Windows Firewall	
Figure 4-1: Setup - AA IVR	.50
Figure 4-2: Auto Attendant IVR Installation Progress	.51
Figure 4-3: Welcome to IVR Setup	
Figure 4-4: Select Destination Location	.52
Figure 4-5: Select Start Menu	
Figure 4-6: Ready to Install	
Figure 4-7: Completing IVR Setup	
Figure 4-8: Administrator: Windows PowerShell	
Figure 4-9: Administrator: Windows PowerShell Message	.55

Figure 4-10: ivr pool DNS Resolve Error	55
Figure 4-11: Add IVR Pool to DNS	56
Figure 4-12: Local Replication	
Figure 4-13: Fax Auto Attendant Setup	57
Figure 4-14: Web Interface - License Activation	58
Figure A-1: Exchange Management Console - Send Connectors	61
Figure A-2: Email to Fax Properties - General	61
Figure A-3: Email to Fax Properties – Address Space	62
Figure A-4: Email to Fax Properties – Network	
Figure B-1: Skype for Business Local Storage Setup	
Figure B-2: Skype for Business Server 2013 File Location	63
Figure B-3: Skype for Business Local Storage License Agreement	64
Figure B-4: Skype for Business – Deployment Wizard – Prepare Active Directory	64
Figure B-5: Skype for Business Deployment Wizard– Install or Update	
Figure B-6: Configure Local Replica of Central Management Store	65
Figure B-7: Skype for Business Deployment Wizard– Executing Commands	66
Figure B-8: Skype for Business Deployment Wizard– Executing Commands - Finish	66
Figure G-1: Neevia Document Converter Pro – Settings – Folders	
Figure G-2: Neevia Document Converter Pro - Input Folder	
Figure G-3: Edit Input Folder Settings	
Figure G-4: Edit File Association	76

# List of Tables

Table 1-1: Call Flow - Incoming Fax2Mail with Fax Detection Description	14
Table 1-2: Call Flow - Outgoing Mail2Fax Description	15
Table 1-3: Call Flow - Call Controlled by Auto Attendant	
Table 3-1: Welcome Settings	37
Table 3-2: Configuring Fax Server Ports	
Table 3-3: Neevia Document Converter Pro - Register	



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### Notice

This document shows how to install the Fax Server application and the Auto Attendant IVR.

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#### **Abbreviations and Terminology**

Each abbreviation, unless widely used, is spelled out in full when first used.

### **Related Documentation**

#### Manual Name

Fax Server and Auto Attendant Administrator's Guide



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### **Documentation Feedback**

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# **1** Introduction



**Note:** Microsoft has rebranded Lync as Skype for Business and therefore, whenever the term Skype for Business appears in this document, it also applies to Lync Server 2013.

## 1.1 Fax Server

AudioCodes' Fax Server (Fax to Mail and Mail to Fax) application is a powerful and flexible software application used to manage inbound fax calls and outbound mail-to-fax calls, delivering them efficiently to their correct destination.

As part of AudioCodes' One Voice for Microsoft Skype for Business offering, the Fax Server application can be deployed on AudioCodes' Mediant Gateways and Survivable Branch Appliances (SBAs) in branch offices of distributed enterprises.

As a pure software application, AudioCodes' Fax Server can also be deployed on a standard server.

For enterprises with multiple branch offices, the application can be deployed per local branch, or as a centralized application in the datacenter that serves all remote branches.

#### **1.1.1 Features and Benefits**

Features and benefits of the Fax Server application are as follows:

- Support for corporate fax, a dedicated fax number for specific users, and a combined voice/fax mailbox
- Support of corporate mail to fax services
- Always-available service, 24/7/365
- Reliable, no fax machine maintenance required, no more 'Out of paper', 'Out of toner'", 'Paper Jam' or 'Faxes Getting Lost' notifications
- Convenient and easy to use mail-to-fax services
- Go Green: Eliminates massive paper consumption and annoying piles of spam faxes
- Savings on DID lines: One DID per user for both voice and fax calls
- Available on AudioCodes' Mediant 800B and Mediant 1000B SBA platforms
- Fax is received as email with PDF attachments and can be viewed on PCs and smartphones and printed, archived and forwarded to others
- Incoming faxes can be routed to one or multiple destinations
- Automatic Fax Detection supporting T.38 and T.30 fax protocols
- Email is sent to fax destination with attachments if required, and the user receives an email notification of the Send operation
- Easy-to-use web interface for managing system service
- Easy to set up: Integrates with the enterprise's Active Directory (LDAP) and the enterprise's mail server (SMTP)
- Scalable from a few fax ports to dozens of fax ports

# 1.2 Auto Attendant IVR

AudioCodes' Auto Attendant IVR (AA IVR) is an Interactive Voice Response system that provides enterprises with a powerful and flexible tool to manage inbound calls and deliver them to intended destinations, based on buttons pressed by callers, using DTMF detection or speech activated.

Auto Attendant IVR supports advanced Call Queue for Automatic Call Distribution (ACD) based on different routing modes and agents availability.

As part of AudioCodes' One Voice for Microsoft Skype for Business offering, Auto Attendant IVR can be deployed together with AudioCodes' Survivable Branch Appliances (SBAs) in branch offices to replace Skype for Business's Response Group Service (RGS) when the connection with the central Skype for Business server is lost.

Auto Attendant IVR is a pure software application which can also be deployed on standard server hardware.

The ACD routes and queues incoming calls to a group of people, called agents, such as for a help desk or a customer service desk.

The ACD comprises the following components:

- Agents
- Groups
- Queues
- ACD Flows
- IVR
- Holidays
- Business Working Hours

#### **1.2.1** Features and Benefits

#### Features:

- Automatically plays voice prompts to callers
- Transfers callers to additional menus and extensions based on caller input
- Supports different IVR behavior for working hours, non-working hours and holidays
- Automatic Call Distribution (ACD) to Skype for Business agents
- Multi-Language support and localization
- Allows direct extension reach with minimal DID
- Graphical User Interface for managing IVR menus and call flow
- Voice activation and Text to Speech

#### **Benefits:**

- Maximizes employee productivity by automating inbound enterprise call routing
- Reduces Direct Inward Dialing / Direct Dial-In (DID / DDI) requirements through direct extension dialing
- Increases customer satisfaction through reduced waiting times
- Suitable for main offices and remote branches
- Supports application survivability at branch offices
- Replaces Skype for Business Response Group Service (RGS) or as a standalone solution
- Multi-language support for global enterprise Skype for Business deployments
- Saves on operational costs by reducing the number of operator calls

# **1.3** About this Guide

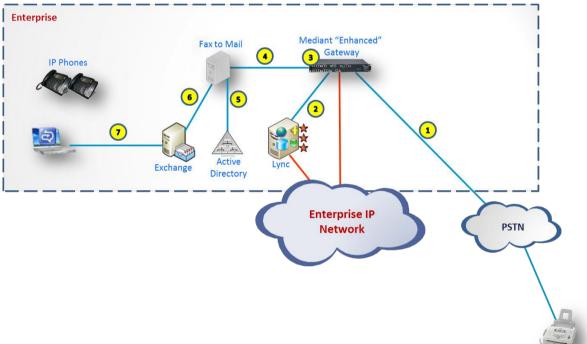
This guide shows how to install AudioCodes' Fax Server and Auto Attendant IVR software applications. The guide also shows how to set up the AudioCodes Gateway fax detection and fax reroute mechanisms.

### 1.4 Call Flow Descriptions

The procedure below describes the call flow for incoming and outgoing faxes and for an incoming call from the PSTN to a Skype for Business agent controlled by the Auto Attendant application.

### 1.4.1 Incoming Fax2Mail Flow with Fax Detection

The figure below shows the typical call flow for an incoming fax call to an enterprise. In this configuration, the call is sent to the Microsoft Skype for Business user. If it is a fax call, the call will be routed to the Fax server.



#### Figure 1-1: Call Flow - Incoming Fax2Mail with Fax Detection

The table below describes the call flow for an incoming Fax2Mail with Fax Detection.

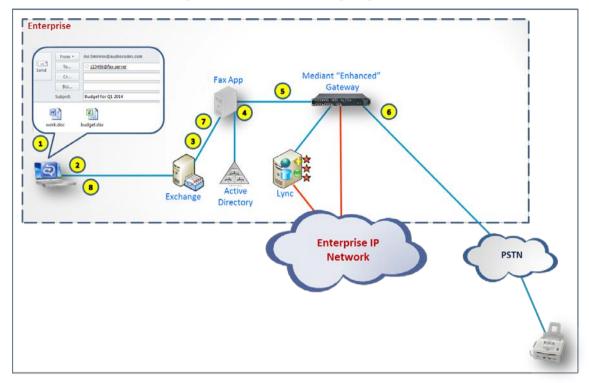
Table 1-1: Call Flow - Incoming Fax2Mail with Fax Detection Description

Step #	Description			
1	The incoming Fax Call from PSTN to the AudioCodes Gateway (T.38 or G.711).			
2	The call is routed to the Skype for Business server. The Skype for Business user answers the call.			
3	Gateway Fax Detection monitors the call. If the fax call is detected, the call is re-routed to the Fax server (T.38).			
4	The Fax server terminates the fax call.			
5	The Fax2Mail service finds the destination user email in the company Active Directory (LDAP).			
6	The Fax server sends an email with a PDF attachment to the mail server (SMTP).			
7	The user receives a fax message in Microsoft Outlook.			

## 1.4.2 Outgoing Mail2Fax Flow

The diagram below illustrates the call flow for an outgoing fax call from the user.

Figure 1-2: Call Flow - Outgoing Mail2Fax



The table below describes the call flow for an Outgoing Mail2Fax.

Step #	Description		
1	The user creates a new email with attachments and sends to <i>number@fax.server</i> (e.g. +972123456@fax.server).		
2	The Email is sent to the company mail server.		
3	The company mail server forwards email to Fax server.		
4	The Fax server converts the email and attachments to fax format.		
5	The Fax server sends the fax via T.38 to the PSTN gateway.		
6	The Fax is sent to PSTN via AudioCodes gateway (T.38 or G.711).		
7	The Fax server sends a success/fail delivery email to the Mail server.		
8	The user receives success/fail report for the fax send operation.		

### 1.4.3 Incoming Call Controlled by Auto Attendant Call Flow

The figure below shows the typical flow of an incoming call from the PSTN to a Skype for Business agent controlled by the Auto Attendant application.

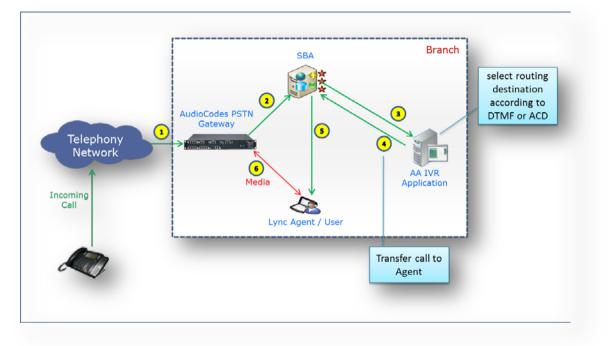


Figure 1-3: Call Flow – Incoming Call Controlled by Auto Attendant

The table below describes the call flow for a call controlled by the Auto Attendant.

Table 1-3: Call Flow - Call Controlled by Auto Attendant

Step #	Description		
1	A caller dials the enterprise's leading number.		
2	The gateway sends the call to the SBA.		
3	The SBA identifies the number as an Auto Attendant number and sends the call to the Auto Attendant application.		
4	The Auto Attendant application answers the call and - according to IVR settings and caller interactions - the call is transferred to a Skype for Business user or agent.		
5	The SBA sends the call to the Skype for Business user/agent.		
6	The call is established and a Media path is established between the gateway and the Skype for Business client.		

# 2 **Prerequisites**

The following describes the hardware and software prerequisites for the following installation types:

- Installation on customer's server
- Installation on SBA

# 2.1 Installation on the Customer's Server

For customers with SBA, installations, you must first enable Hyper-V and define a virtual machine that will host the Fax/ATT applications. Before you install the Fax server, make sure you meet the following prerequisites:

- Minimum server specifications:
  - CPU: Dual Core
  - Memory: 2 GB RAM
  - Hard Disk: 80G
- Operating System requirements:
  - Windows Server 2008 R2 Standard with Service Pack 1, 64-bit version -OR-
  - Windows Server 2012 R2, 64-bit version



**Note:** The Operating System should be "clean" with no additional software/applications previously installed.

For installation on the customer's server, do the following:

- Download the FaxIvr installation file from <u>https://audiocodes.sharefile.com/d-s3d2f85764084f6da</u> Since the file is zipped, you need to unzip to C:\.
- Install Microsoft .Net 3.5. library by opening the Microsoft Server Manager and navigating to Add Features and enabling the .NET Framework 3.5 feature.
- For Windows 2008 R2 server only, install Microsoft Desktop Experience by opening the Microsoft Server Manager and navigating to Add Features. Enable the Desktop Experience feature.
- For Windows 2012 R2 server only, install Microsoft Media Foundation by opening the Microsoft Server Manager and navigating to Add Features. Enable the Media Foundation feature.
- Install Microsoft .Net 4.5 library from the installation directory ..\data\NDP451-KB2858728-x86-x64-AllOS-ENU.exe (or you can download it from <u>http://www.microsoft.com/en-us/download/details.aspx?id=40779</u>).

# 2.2 Adding Fax AA IVR Application VM to the SBA

The procedure below shows how to define the Fax server / Auto Attendant IVR application as a Virtual Machine on the OSN module using the Microsoft's Hyper-V Manager.

- > To add the Fax / AA IVR application to the OSN module:
- 1. Connect to the OSN module using a Remote Desktop Connection (Start > Remote Desktop Connection).
- 2. On the Remote Desktop Connection screen, click the **Server Manager** icon; the Server Manager opens:

Server Manager				
File Action View Help				
> 🔿 🖄 📅 🔽				
Server Manager (WIN-SVS7DG4S70	Roles			
Image: Second state       Image: Second state	View the health of the roles installed	on your server and add or remove roles and	l features.	
	Roles Summary		Roles Summary Help	Ē
	Roles: 1 of 17 installed     Web Server (IIS)		<mark>Bes Add Roles</mark> i⊒ Remove Roles	
	🔿 Web Server (II5)		Web Server (IIS) Help	
	Provides a reliable, manageable, and scalable V	Web application infrastructure.		
	Role Status		Go to Web Server (IIS)	
	Messages: None System Services: 4 Running, 1 Stoppe () Events: 2 informational in the last 24 Best Practices Analyzer: To start a Bes tile on this role's homepage and dick So	nours st Practices Analyzer scan, go to the Best Pr	actices Analyzer	
	Role Services: 28 installed		Add Role Services	
	Role Service	Status	Remove Role Services	
	👆 Web Server	Installed		
	Common HTTP Features	Installed		
	📩 Static Content	Installed		
	📥 Default Document	Installed		
	Static Content Default Document Directory Browsing HTTP Errors HTTP Redirection	Installed		
	👗 HTTP Errors	Installed		
	HTTP Redirection	Installed		
	WebDAV Publishing	Not installed		•

#### Figure 2-1: Server Manager

3. In the Navigation tree, select the **Roles** menu option; the Roles pane opens.

4. In the Roles pane, click **Add Roles**; the Add Roles Wizard opens:

Figure 2-2: Add Roles Wizard - Select Server Roles

Add Roles Wizard	Roles	X
Before You Begin Server Roles Hyper-V Virtual Networks Confirmation Progress Results	Select one or more roles to install on this server. Roles:  Active Directory Certificate Services Active Directory Pederation Services Active Directory Rights Management Services Active Directory Rights Management Services Active Directory Rights Management Services DHCP Server DHCP Server Star Server Remote Desktop Services Web Server (IIS) (Installed) Windows Deployment Services Windows Server Update Services Windows Server Update Services	Description: Hyper-V provides the services that you can use to create and manage virtual machines and their resources. Each virtual machine is a virtualized computer system that operates in an isolated execution environment. This allows you to run multiple operating systems simultaneously.
	< Previous	Next > Install Cancel

- 5. In the **Roles** list, select the **Hyper-V** check box.
- 6. Click **Next**; the Hyper-V screen opens.

#### Figure 2-3: Add Roles Wizard - Hyper-V

Add Roles Wizard	×
Hyper-V	
Before You Begin Server Roles Hyper-V Virtual Networks Confirmation Progress Results	Introduction to Hyper-V         Hyper-V allows you to virtualize your server workloads by running those workloads on virtual machines. You can use virtual machines to consolidate multiple workloads on one physical server, to improve server availability, and to increase efficiency in developing and testing software.         Things to Note <ul> <li>Before you install this role, you should identify which network connections on this server you want to use for setting up virtual networks.</li> <li>After you install Hyper-V, you can use Hyper-V Manager to create and configure your virtual machines.</li> <li>Additional Information</li> <li>Hyper-V Coverview</li> <li>Hyper-V Coverview</li> <li>Configuring Virtual Machines</li> <li>Configuring Virtual Machines</li> <li>Configuring Hyper-V</li> <li>Server you</li> <li>Previous</li> <li>Next &gt; Install</li> <li>Cancel</li> </ul>



7. Click Next; the Create Virtual Networks screen is displayed.



Add Roles Wizard		×
Create Virtual Ne	tworks	
Before You Begin Server Roles Hyper-V Virtual Networks Confirmation Progress Results	Witual machines require virtual networks to communicate with other computers. After you install this role, you can create virtual machines and attach them to a virtual network.         One virtual network will be created for each network adapter you select. We recommend that you create at least one virtual network now for use with virtual machines. You can add, remove, and modify your virtual networks later by using the Virtual Network Manager.         Network Adapters:       Name       Network Adapter         Image: Include Area Connection Intel(R) PRO/1000 PT Server Adapter       Inclad Area Connection 2 Intel(R) PRO/1000 PT Server Connection         Image: Inclad Area Connection 3 Intel(R) PRO/1000 PB Dual Port Server Connection #2       Image: Imag	
	<pre>&lt; Previous Next &gt; Install Cancel</pre>	

8. Select the appropriate Network Adapter (the Adapter used by the SBA and connected to the network), and then click **Next**; the Confirm Installation Selections screen opens.

Figure 2-5: Add Roles Wizard - Confirm Installation Selections

Add Roles Wizard		×
Confirm Installa	tion Selections	
Before You Begin Server Roles Hyper-V Virtual Networks Confirmation	To install the following roles, role services, or features, click Install.	_
Progress	Virtual Networks : Local Area Connection	
Results		
	Print, e-mail, or save this information	
	< Previous Next > Install Cancel	]

9. Click Install; the Installation Results screen opens.

Figure 2-6: Add Roles Wizard - Installation Results

Add Roles Wizard			×
Installation Resu	lts		
Before You Begin Server Roles Hyper-V	One or more of the following ro	oles, role services, or features require you to restart: w	
Virtual Networks	→ Hyper-¥	🔔 Restart Pending	
Confirmation	🔥 You must restart this se	erver to finish the installation process.	
Progress			
Results			
	Print, e-mail, or save the install	ation report	
		<previous next=""> Close</previous>	Cancel

- **10.** Restart the Fax AA IVR server.
- **11.** Click **Start > Administrative Tools > Hyper-V Manager**; the Hyper-V Manager screen opens.

Figure 2	-7: Hyper-\	/ Manager
----------	-------------	-----------

<b>≣</b> ∦Hyper-¥ Manager							
File Action View Window	Help					_ 8 ×	
🗢 🔿 🖄 📅 🔽 🗊							
Hyper-V Manager	Virtual Machines				Actions		
WIN-SV57DG4S7QE	Name A	State	CPU Usage	Memory	WIN-SVS7DG4S7QE	-	
					New		Virtual Machine
	N	o virtual machines w	ere found on this	server.	🕞 Import Virtual Machine		Hard Disk Floppy Disk
					Hyper-V Settings		Порру Бізка
					👯 Virtual Network Manager		
					💰 Edit Disk		
					🖳 Inspect Disk		
	•				Stop Service		
	Snapshots				X Remove Server		
					🔉 Refresh		
		No virtual ma	chine selected.		View	•	
					New Window from Here		
					👔 Help		
	Details						
		No item	selected.				
Displays the new virtual machine wizard.	•			Þ	]		
pispiays the new virtual machine wizard.							

# AudioCodes

**12.** In the Actions pane, click **New > Virtual Machine**; the New Virtual Machine Wizard screen opens.

Figure 2-8: New Virtual Machine Wizard - Before You Begin

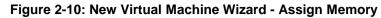
ኪ New Virtual Machine Wiza	rd 🛛 🔀
Before You E	Begin
Before You Begin Specify Name and Location Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	This wizard helps you create a virtual machine. You can use virtual machines in place of physical computers for a variety of uses. You can use this wizard to configure the virtual machine now, and you can change the configuration later using Hyper-V Manager.  To create a virtual machine, do one of the following:  Click Finish to create a virtual machine that is configured with default values. Click Next to create a virtual machine with a custom configuration.  Do not show this page again More about creating virtual machines  Previous  Next > Finish  Cancel
	Carcol

- 13. Click Next; the Specify Name and Location screen opens.
  - Figure 2-9: New Virtual Machine Wizard Specify Name and Location

🔁 New Virtual Machine Wiza	rd 🛛 🕹
Specify Nam	e and Location
Before You Begin Specify Name and Location Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Choose a name and location for this virtual machine. The name is displayed in Hyper-V Manager. We recommend that you use a name that helps you easily identify this virtual machine, such as the name of the guest operating system or workload. Name: Fax Server Auto Attendant IVR You can create a folder or use an existing folder to store the virtual machine. If you don't select a folder, the virtual machine is stored in the default folder configured for this server. Store the virtual machine in a different location Location: C:\ProgramData\Microsoft\Windows\Hyper-V\ Browse If you plan to take snapshots of this virtual machine, select a location that has enough free space. Snapshots include virtual machine data and may require a large amount of space.
	< Previous Next > Finish Cancel

14. In the 'Name' field, enter **Fax Server Auto Attendant IVR** as the name for your virtual machine.

15. Click Next; the Assign Memory screen opens.



ኪ New Virtual Machine Wiza	rd X
Assign Memo	bry
Before You Begin Specify Name and Location Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 8 MB through 2046 MB. To improve performance, specify more than the minimum amount recommended for the operating system.         Memory:       2046         MB       When you decide how much memory to assign to a virtual machine, consider how you intend to use the virtual machine and the operating system that it will run.         More about determining the memory to assign to a virtual machine
	<pre>&lt; Previous Next &gt; Finish Cancel</pre>

- In the 'Memory' field, enter 2046 MB (assuming your machine has a total memory of 4 GB), or 750 MB (assuming your machine has a total memory of 2 GB).
- **17.** Click **Next**; the Configure Networking screen opens.

#### Figure 2-11: New Virtual Machine Wizard - Configure Networking

🏚 New Virtual Machine Wiza	rd 🛛 🔀
Configure No	etworking
Before You Begin Specify Name and Location Assign Memory Configure Networking Connect Virtual Hard Disk Summary	Each new virtual machine includes a network adapter. You can configure the network adapter to use a virtual network, or it can remain disconnected. Connection: Tocal Area Connection - Virtual Network More about configuring network adapters
	< Previous Next > Finish Cancel

**18.** In the 'Connection' field, select the required network adapter.

**19.** Click **Next**; the Connect Virtual Hard Disk screen opens.



Assign Memory Configure Networking Connect Virtual Hard Disk Summary Size: 127 GB (Maximum: 2040 GB)  Use an existing virtual hard disk	Sefore You Begin Specify Name and Location	A virtual machine requires storage so that you can install an operating system. You can specify the storage now or configure it later by modifying the virtual machine's properties.
Name:         PresAA_V2_4 vHd           Location:         C:\Users\Public\Documents\Hyper-V\Wrtual Hard Disks\         Browse           Size:         127         GB (Maximum: 2040 GB)         Browse		C Create a virtual hard disk
Summary Location: C:(Users)Public(Documents)Hyper-V(Virtual Hard Disks) Size: 127 GB (Maximum: 2040 GB) Use an existing virtual hard disk		Name: FacAA_V2_4 vbd
	ALCONTRACTOR OF A	
		Use an existing virtual hard disk
Location: Et/Users/Public/Documents/Hyper-V/Virtual Hard Disks) Browse		Location: Et/Users/Public(Documents)/Hyper-V/Virtual Hard Disks) Browse
Attach a virtual hard disk later		Attach a virtual hard disk later

- 20. Click the Use an existing virtual hard disk option.
- Click Browse..., and then navigate to the location of the vhd file: C:\Users\Public\Documents\Hyper-V\Virtual hard disks\FaxAttWin2008R2-SP1.vhd;
- 22. The Open screen is displayed.

Figure 2-13: New Virtual Machine Wizard - Open

骵 New Virtual Machine Wizar	d		
🏚 Open			×
💮 🖗 🕈 Hyper-V 🕶	Virtual hard disks 🗾 👻	Search Virtual hard disk	s 😢
Organize 🔻 New folder		:==	• 🔳 🔞
🚡 Microsoft Managemei 📥 .	Name *	Date modified	Туре
	FaxAA Win2008R2-SP1.vhd	12/26/2013 3:29 PM	VHD File
🔶 Favorites			
🧮 Desktop			I
🚺 Downloads			I
🖳 Recent Places			
🥃 Libraries			
Documents			
🌙 Music			
Nictures			
Videos			
📮 Computer			
🚢 Local Disk (C:)			
👝 Local Disk (D:)			
🖵 C on ISR1217-334			
□ D op ISD1217 224(▲	•		

**23.** Select the Fax AA IVR VHD file, and then click **Open**; the Connect Virtual Hard Disk screen is displayed.

24. Click Next; the Completing the New Virtual Machine Wizard screen is displayed.

Figure 2-14: New Virtual Machine Wizard – Completing the New Virtual Machine Wizard

🏂 New Virtual Machine Wiza	rd	×
Completing	the New Virtual Machine Wizard	
Before You Begin Specify Name and Location Assign Memory Configure Networking Connect Virtual Hard Disk Summary	You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine. Description: Name: Fax Server Auto Attendant IVR Memory: 2046 MB Network: Local Area Connection - Virtual Network Hard Disk: C:\Users\Public\Documents\Hyper-V\Virtual hard disks\FaxAA_V2_4.vhd	
	To create the virtual machine and close the wizard, click Finish.          < Previous	

**25.** Click **Finish**; the Hyper-V Manager screen is displayed, indicating that the Virtual Machine is running.

Figure	2-15:	Hyper-V	Manager
--------	-------	---------	---------

Vertual Machines Name - First-ARVE Snapshots	State CPUU Running 14%		Menory 2046 MB	Uptime 00:00:50		
x] Snapshots	Running 14%		2046M8		New     Bisport Vetual Madme       Imperi V Settings       Stop Service       Xean Service Service       New Vindow from Here       Imperi Veta       New Vindow from Here       Imperi Veta	
					Settings      Settings      Turn Off      Shut Down      Save	
ses					II Pause	
Courte	E B/22/2011 4 20:38 PM	No.	artheat 1	No Contact	Reset	
	None		mory Usage: 1		28 Snapshot	
					Rename	

# 

26. In the Fax AA IVR Actions pane, select Settings; the Settings for Fax AA IVR on SBA screen opens.

pplications	▲ ▷ Q.
Hardware	Processor
M Add Hardware	You can modify the number of virtual processors based on the number of processors on the physical machine. You can also modify other resource control settings.
Memory 750 MB	Number of logical processors: 1
Processor 1 Virtual processor	More about virtual processors   Resource control
IDE Controller 0	You can use resource controls to balance resources among virtual machines.
Hard Drive Win2008R2-5P1_12699B87-91	Virtual machine reserve (percentage): 50
IDE Controller 1	Percent of total system resources: 25
None	Virtual machine limit (percentage): 100
<ul> <li>SCSI Controller</li> <li>Network Adapter</li> <li>Local Area Connection - Virtual Net</li> </ul>	Percent of total system resources: 50
🚏 СОМ 1	Relative weight: 100
None COM 2	More about resource control
None Diskette Drive None	Processor compatibility You can limit the processor features that a virtual machine can use. This improves the virtual machine's compatibility with different processor versions and older quest
Management	operating systems. Select the scenarios you want to enable:
I Name Applications	□ Migrate to a physical computer with a different processor version
All services	Rgn an older operating system, such as Windows NT
Snapshot File Location D:\Applications\	Some settings cannot be modified because the virtual machine was running when this window was opened. To modify a setting that is unavailable, shut down the
Automatic Start Action Restart if previously running	virtual machine and then reopen this window.
Automatic Stop Action Save	
	OK Cancel Apply

#### Figure 2-16: Processor Settings

- **27.** In the Hardware tree, select **Processor**.
- **28.** Configure the following parameters:
  - Set 'Number of logical processors' according to the following table:

HW Platform	Number of Logical Processors
ES	1
EO	2
Intel Celeron 800 MHz Processor	1

- Set 'Virtual machine reserve' to **50**.
- Set 'Virtual machine limit' to **100**.
- 29. Click OK.

**30.** In the Management tree, select the **Automatic Start Action Always start** option; the Automatic Start Action screen opens.

* Hardware	
Add Hardware	Automatic Start Action ————————————————————————————————————
I BIOS	What do you want this virtual machine to do when the physical computer starts?
Boot from CD	C Nothing
Memory	Automatically start if it was running when the service stopped
512 MB	Always start this virtual machine automatically
Processor	
1 Virtual processor	Automatic start delay
IDE Controller 0      Hard Drive	Specify a startup delay to reduce resource contention between virtual machines.
SPS_V2_4.vhd	Startup delay: 22 seconds
🖃 🔝 IDE Controller 1	
DVD Drive None	
SCSI Controller	
Network Adapter	
Local Area Connection - Virtual Net	
🚏 СОМ 1	
None	
TT COM 2	
None	
Diskette Drive	
* Management	
I Name	
SPS	
F Integration Services	
All services offered	
Snapshot File Location C:\ProgramData\Microsoft\Windo	
Automatic Start Action	
Always start	
Automatic Stop Action	
Save	
	OK Cancel Apply
	OK Cancel Apply

Figure 2-17: Automatic Start Action

- 31. Select the Always Start this virtual machine automatically option.
- 32. In the 'Startup delay' field, enter 20 seconds.
- **33.** Click **Apply**, and then click **OK**.
- 34. Start the Fax server Auto Attendant IVR virtual server.

# 2.3 Obtaining the IP Address of the Virtual Machine

The procedure below shows how to determine the IP address of the newly created Fax AA IVR virtual machine. After obtaining it, you can connect directly to the virtual machine via the remote desktop, and then perform the Fax AA IVR installation.

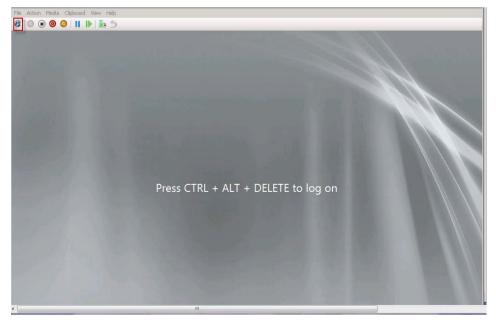
- > To determine the IP address of the Fax AA IVR virtual machine:
- 1. In the Hyper-V Manager, in the Virtual Machines table, right-click the newly created Fax AA IVR virtual machine entry.
- 2. From the shortcut menu, choose **Connect**.

Hyper-V Manager	Virtual Machines						Actions
WIN-4KQ47M35GEF		1.	(	(	[		WIN-4KQ47M35GEF
	Name A Fax Server Auto Attendant IV	State B Bunning	CPU Usage	Assigned Memory 2049 MP	Memory Demand	Me	New +
	-			Connect			🚡 Import Virtual Machine
				Settings			Hyper-V Settings
				Turn Off			👯 Virtual Network Manager
				Shut Down Save			💰 Edit Disk
				Pause	_		Inspect Disk
				Reset			Stop Service
				Snapshot			X Remove Server
				Rename			Refresh
				Help			View
	4					F	New Window from Here
	Snapshots					۲	7 Help
		The selected virtu	al machine has no	snapshots.			Fax Server Auto Attendant IVR 🔺
							Connect
							Settings
							Settings      Turn Off
							Shut Down
							Save
							Pause
							Reset
							Snapshot
							Rename
	Fax Server Auto Attendant	IVR					👔 Help
		12/25/2013 1:21:21		artbeat:	No Contact		
	Notes:			signed Memory: 2			

Figure 2-18: Hyper-V Manager – Fax AA IVR

The Fax AA IVR on the Local Host screen opens.

Figure 2-19: Fax AA IVR on localhost



3. In the Actions bar (upper left corner), click the **Ctrl+Alt+Del** button; the Administrator Login screen opens.

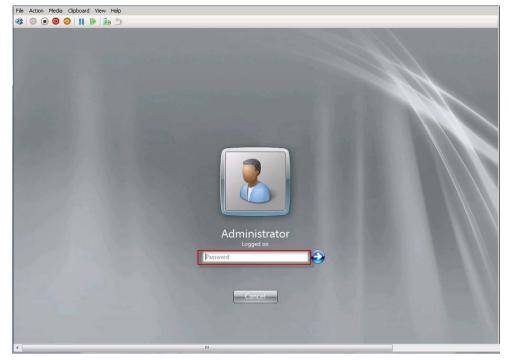
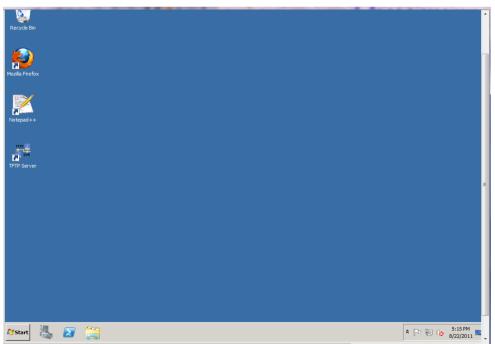


Figure 2-20: Administrator Login

4. In the 'Password' field, enter "Pass123", and then click the arrow button; the Windows Main Screen opens.

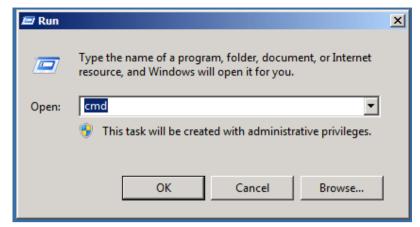






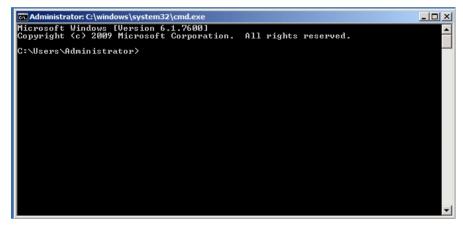
5. Click Start > Run; the Run dialog opens.

#### Figure 2-22: Run



6. In the 'Open' field, enter cmd, and then click OK; the Administrator screen opens.

Figure 2-23: Administrator



7. At the DOS prompt, enter *ipconfig*, and then press **Enter**; the IP address appears on the screen:

Figure 2-24: IP Config

Administrator: C:\windows\system32\cmd.exe	_ 🗆 🗙
C:\Users\Administrator>ipconfig	<b>_</b>
Windows IP Configuration	
Ethernet adapter Local Area Connection: Connection-specific DNS Suffix .: corp.audiocodes.com Link-local IPv6 Address : fe80::6406:5a42:ce82:7b88x12 IPv4 Address : 10.13.22.18 Subnet Mask : 255.255.0.0	
Default Gateway : 10.13.0.1 Tunnel adapter isatap.corp.audiocodes.com:	
Media State Media disconnected Connection-specific DNS Suffix . : corp.audiocodes.com	
Tunnel adapter Local Area Connection* 11:	
Media State Media disconnected Connection-specific DNS Suffix . :	
C:\Users\Administrator>	-

8. Note this IP address to use when connecting to the Fax AA IVR virtual machine via the Remote Desktop as a local administrator when installing the Fax AA IVR application (see Chapter 3 on page 31).

# 3 Installing the Fax Server

The procedure below shows how to install the Fax server. The following describes the sequence of actions required to perform this procedure:

- 1. Installing the Fax server (see Section 3.1 on page 31)
- 2. Setting up the Gateway with Fax Detection (see Section 3.2 on page 39)
- 3. Configuring the Fax server's Ports (see Section 3.3 on page 43)
- 4. Configuring LDAP settings (see Section 3.4 on page 43)
- 5. Activating Fax server license (see Section 3.5 on page 44)
- 6. Setting the Neevia license (see Section 3.6 on page 45)

# 3.1 Installing the Fax Server

The procedure below shows how to install the Fax server. Perform the installation with a user who has Administrator permissions on the local server.

#### **To install the Fax server:**

1. Run *fax\_att\_setup* located in C:\Fax\_Att\_Setup; the setup screen opens:

Figure 3-1: Setup - Fax Server / Auto Attendant IVR

🛛 AudioCodes Fax Auto Attendat Setup	
JAudioCodes	
Select the application(s) you wish to install	
□ Fax Server	
□ Auto Attendant IVR	
Run	



**Note:** In case you wish to also install the IVR, see the IVR pre-requirements in Section 4 on page 49.



2. Select the 'Fax Server' check box, and then click **Run** to continue; the following screen appears:

🥭 Fax Auto Attendat Setup	(Version 2.0.12)
AudioCodes	Installing Core (2/2) Please Wait
	Dre _APP_infrastructure_setup.exe /Silent" _APP_web_admin_setup_2.2.11.38018.exe /Silent"
	🖥 Setup - Fax IVR Application Web Admin 📃 🔲 🗙
	Installing Please wait while Setup installs Fax IVR Application Web Admin on your computer.
	Extracting files C:\F2MAdmin\F2E\AudioCodes_files\utils\IVR\diagram\icons\PNG\Connect.png

#### Figure 3-2: Setup - Fax Server Installation

3. Create a new local Windows user. The installation requires a username and password in order to create a new local Windows user that will be used to assign specific credentials for Fax server's services (The created user will be a member of the local administrators group).



🦪 Fax Auto Att	tendat Setup (Version 2.0.12)	_ 🗆 🗙
	Installing Fax Server (1/9) Please Wait	
Running proc Running proc	tess : "AUDC_APP_infrastructure_setup.exe /Silent" cess : "AUDC_APP_web_admin_setup_2.2.11.38018.exe /Silent" ation compleated	
Install Create Wind	New Windows Account For Fax Server	
	User Name	
	Password Confirm Password Create Create	

4. When the installation completes, the following screen appears:

#### Figure 3-4: Installation Progress

ax Auto Attendat Setup (Yersion 2.0.12)
AudioCodes
nning process : "powershell.exe -file otf-shurtcut.ps1"
stalling Neevia
nning process : "dcpro67.exe /silent /norestart"
nning process : "chromium.exe /silent"
stalling hMailServer
nning process : "hMailServer-5.4-B1950.exe /silent " stalling Fax Server Trial License
nning process : "audc_fax_hasp.exe -i -cm"
stalling Fax To Mail
nning process : "f_2_m_setup.exe /silent"
nning process : "f_2_m_w_setup.exe /silent"
stalling Mail To Fax
nning process : "m_2_f_setup.exe /silent"
stalling Fax Server
nning process : "AUDC_APP_fax_server_setup.exe /silent"
eate Neevia Service
eate Neevia Service success
ange service F2M service logon
ange service F2MW service logon
ange service Fax_Receiver service logon
x Server installation completed
Norver instantion completed
order to finalize the installation please restart the computer
commended: Configure Neevia before restarting (follow the Installation Guide instructions)
ck <u>here</u> to open Neevia
ck here to exit and restart the computer
FINISH **



#### Notes:

- It is recommended to configure the Neevia Document Converter *before* restarting the computer.
- If you click to exit and restart, then you should re-open Neevia with the application's icon on the desktop.
- 5. Click the here link to open Neevia.

#### Notes:



- By default the Neevia Converter supports 'pdf', 'txt' and 'html' files. If you need to add support for other file types, then you have to install the required compatible software, e.g. Microsoft Word for .docx file, Microsoft Excel for .xlsx file etc. Use the *Auto-Detect Installed Parsers* button to enable parsers.
- In case you have installed Microsoft Office 2013 (Word, Excel, PowerPoint), follow the instructions detailed on page 73.
- The installation of Microsoft Office should be performed by the local administrator user.



- To change output settings:
- 1. In Neevia Converter Pro, click the **Settings** tab.

Figure 3-5: Neevia Document Converter Pro - Settings - Folders...

🔅 Neevia Document Converter Pro					
Converter View Settings Help					
	Folders				
Files in queue:	Email watcher				
	X Advanced Settings				
[3:44:14 PM] DC Pro version: 6.5 [3:44:14 PM] Computer Name: KAIRAT-PC [3:44:14 PM] Current User: kairat [3:44:14 PM] Is Admin: True [3:44:14 PM] Temp Folder: C: (Program Files\neevia.com\docConverterPro\temp\WVDC\ [3:44:14 PM] Debug Mode enabled: False [3:44:14 PM] Debug Mode enabled: False [3:44:14 PM] C: (Program Files\neevia.com\docConverterPro\DEF_FOLDERS\IN\					
[3:44:14 PM] C:\		Ŧ			
Main log Erro					
d 🖸 🖪					
Started Time	e: 3:44:20 PM Total threads: 0 Converted docs: 0	h.			

2. From the menu choose the **Folders...**option.

Figure 3-6: Neevia Document Converter Pro - Input Folder

I ODVERTER VIEW SETTING HEID	×
Folder to scan	Output format
🙋 C:\Program Files (x86)\neevia.com\docConverterPro\DEF_FOLDERS\IN\	TIFF
😌 Add Folder 🛛 😤 Edit Settings	

3. Double-click the folder displayed; the Edit Input Folder Settings screen is displayed.

dit Input Folder Settings	>				
General Settings Scripting Document Parsers File Associations Advanced Settings					
Folder to scan:					
C:\Program Files (x86)\neevia.com\docConverterPro\DEF_FOLDERS\IN\ ,,,					
Process Subfolders 🗌 Delete empty subfolders 🔽 Process All Files in the input folder					
🗆 Destination (Output) folder:					
C:\Program Files (x86)\neevia.com\docConverterPro\DEF_FOLDERS\OUT_TEMP\					
Copy "Folder to scan" structure 🛛 Keep original file extension in the output file name	_				
Error folder:					
C:\Program Files (x86)\neevia.com\docConverterPro\DEF_FOLDERS\ERROR\	[				
Copy "Folder to scan" structure					
└── Folder for original files:					
- Culture rem Files (v06)/peopuis com/desConverterBro/DEE_EOUDEDS/ODIC/					
Copy "Folder to scan" structure					
Output Format: TIFF Output Settings Watermark / Stationery					
Use Printer: Neevia Converter					
Import Export	Cancel				

Figure 3-7: Neevia Document Converter Pro - Edit

4. Click the **Import...** button.

Figure 3-8: Neevia Document Converter Pro - Import Configuration File

ŀ	💥 Please select	the configuratio	n file to import				×
	Look in:	퉬 install		• 0	ø 🖻 🖪	•	
	Recent Places Desktop Libraries Computer	Name		<ul> <li>✓ Date modifi</li> <li>1/12/2014</li> <li>1/16/2014</li> </ul>		FG File	•
		•					•
		File name:			•	0	)pen
		Files of type:	Configuration files (*.cfg	J)	•	C	ancel

- 5. Navigate to the path of the configuration files directory C:\F2MAdmin\install.
- 6. Select the 'Import\_1.cfg' check box, and then click **Open**.
- 7. Click Apply.
- 8. In the Input Folder(s) screen, click Add Folder.
- 9. Click Import.
- **10.** Select the 'Import\_2.cfg' check box, and then click **Open**.
- 11. Click Apply.

#### > To restart the computer:

- 1. Click the <u>here</u> link to exit and restart the computer.
- 2. After the computer restarts, open Remote Desktop Connection, and then connect to the server. The server will run a short script to finalize the installation.



Note: Do not stop this script.

#### Figure 3-9: Restart Services

C:\Windows\system32\cmd.exe
C:\Windows\system32>"C:\Program Files (x86)\Commetrex\otf\bin\otf_set_ip.exe" cureent user is Administrator Host Name = W2008R2-ERAN
***** WARNING **** Detect more then one IP
1 fe80::a50d:5188:24dc:a39bx12 2 10.21.10.7
Get IP Address 10.21.10.7
Start Service "BladeWare" . service status is now Running.
Wait for service running The "BladeWare" service status is now set to Running. Run process : "AddProfile -f sip_rsm_profile_cti2.cfg sip_profile config" Lexer: EOF found. KusParserrestart. yyterminate. Updating the existing profile. Lexer: EOF found. KusParserrestart. yyterminate. Exit.
Restart services .
Stop service "BladeWare" service status is now Running.
Wait for service stoped The "BladeWare" service status is now set to Stopped.
Stop service "Fax_Receiver" service status is now Stopped.
Wait for service stoped The "Fax_Receiver" service status is now set to Stopped.
Start Service "BladeWare" . service status is now Stopped.
Wait for service running

- **3.** Log out and re-log in with the local user that was created for the fax service during the installation. If Microsoft Office is installed, you need to open all Microsoft Office applications once to verify that the fax user can open all the installed Office applications.
- Open the web browser <u>http://Server\_IP:8090</u>. If you cannot connect, try to connect to Port 9431.



**Note:** You must use a browser that supports HTML 5 (Internet Explorer 10 or higher).

G Application Web Administrat: x	
	ation Web Administration
	Welcome to the Application Web Administration
	Username:
	Login

5. The installation is now complete. You're directed to the Fax Server Web Admin, at port **8090**.



**Note:** The Fax server uses port 8090 while the standard port 80 is used by another application that is installed on the same server.

6. Enter Username (Default = Admin) and Password (Default = Admin) and click Login; the Welcome screen is displayed:

#### Figure 3-11: Fax Server Web Administration - Welcome

Before you start please fill this	form and click submit:	
MTP Server	10.13.2.20	
SMTP Port	25	
MTP Use Default Credentials		
MTP Enable SSL		
MTP User Name		
MTP Password		
Default Email		
rom Email Address		
Default SIP Gateway IP	1.1.1.1	
Default Gateway Port		
ax ID		
lax Fax Recipients	10	
Add Cover Page	2	
Archive	2	

7. Configure the parameters using the descriptions in Table 3-1 as reference.

#### Table 3-1: Welcome Settings

Parameter	Description
SMTP Server	Enter the IP of the SMTP server. The system uses the external mail (SMTP) server for sending mail, therefore you need to assign mail server properties.

# 

Parameter	Description
SMTP Port	Enter the port number of the SMTP.
SMTP Use Default Credentials	Gets or sets a Boolean value that controls whether the Default Credentials are sent with requests.
SMTP Enable SSL	Specify whether the SmtpClient uses Secure Sockets Layer (SSL) to encrypt the connection.
SMTP User Name	SMTP server credential user name. This field is optional. It is required if the external mail (SMTP) server requires user credentials.
SMTP Password	SMTP server credential password. This field is optional. It is required if the external mail (SMTP) server requires user credentials
Default Email	When faxes are received, the system checks for the DN number either in the internal table or via the LDAP request. If the email of an incoming fax number is not configured – the fax will be sent to the default email address.
From Email Address	The From Email address of the sent email.
Default SIP Gateway IP	This is the IP address of the VoIP gateway. The system will send faxes to this gateway according to the outgoing rules.
Fax ID	The fax ID that the fax sender will see on his fax machine as the fax number destination.
Max Fax Recipients	Maximum number of fax recipients in which to send.
Add Cover Page	Check the Add Cover Page box to add default cover page template to the fax
Archive	Check the Archive box to make the system archiving the outgoing and incoming faxes

- 8. Click Submit.
- 9. To activate the Fax server license, see Section 3.5.
- **10.** Configure your computer as follows:
  - a. Open Control Panel > Devices and Printers.
  - b. Right-click Neevia Converter and choose Printer Properties.
  - **c.** Click the **Advanced** tab and clear 'Enable advanced printing features' and 'Neevia ShellPrintPDF'.
  - d. Set the Neevia printer as the default printer.
  - e. Restart the computer.
- **11.** The installation is now complete. You can now log in to the system. Refer to the *Fax Server and Auto Attendant IVR Administrator's Guide* for detailed information.



**Note:** It is mandatory to configure fields 'SMTP Server' and 'Default Email'. If these fields are left un-configured, the Fax Server service will not start. See Appendix A on page 61 for instructions on how to configure the Exchange SMTP Connector.

## 3.2 Setting up Fax Detection on AudioCodes' Gateway

The procedure below show how to set up the AudioCodes Gateway with Fax Detection and Fax Reroute.

### 3.2.1 How Fax Detection and Fax Reroute Work

The Fax Detection and Fax Reroute mechanisms operate as described in the event sequence below:

- 1. The Skype for Business or enterprise IP PBX receives a new call which is routed to a specific user according to its destination number.
- 2. The user picks up the phone as a regular call or the call is transferred to the user's VOICEMAIL system when the user is unavailable.
- 3. The called party starts a fax transmission (i.e., plays the CNG tones).
- 4. The AudioCodes gateway monitors the call and when a fax is detected, it redirects the call to the Fax server with the user's extension number. The call at the user's side is disconnected at this stage.
- **5.** The Fax server receives the new fax call with the user extension number and starts the fax receiving.

### 3.2.2 Configuring Fax Detection and Fax Reroute

The procedure below shows how to configure Fax Detection and Fax Reroute.



**Note:** This procedure applies to the Mediant 1000 Gateway and E-SBC and the Mediant 800 Gateway and E-SBC version 6.2 and later.

#### > To configure Fax Detection and Fax Reroute:

- 1. Access the gateway's Web interface.
- 2. Select Full mode to see all available options.
- Under the Configuration tab, access VoIP > SIP Definitions > General Parameters > Fax Signaling Method, and then select T.38 Relay.
- 4. Under the Configuration tab, access VoIP > SIP Definitions > Advanced Parameters > Enable Fax Re-Routing, and then select Enable.
- 5. Under the Configuration tab, access VoIP > Media > Fax/Modem/CID Settings > CNG Detector Mode, and then select Events Only.



 Configure the coders: Under the Configuration tab, access VoIP > Coders and Profiles > Coders; the following screen is displayed:

#### Figure 3-12: Coders Table

Coders Ta	ble							
	Coder Name		Packetiza	tion Time	R	ate	Payload Type	Silence Suppression
	G.711A-law	•	20	•	64	-	8	Disabled
	G.711U-law	•	20	•	64	-	0	Disabled 💌
		•		•		-		
		•		•		-		•



Note: Use voice coders only. Do not add T.38 in the Coders Table.

- 7. Under the Configuration tab, access VoIP > GW and IP to IP > Routing >Tel to IP Routing, and then define a new rule as follows:
  - **a.** Tel to IP Routing Mode = Route calls before manipulation
  - **b.** Dest. Phone Prefix = FAX
  - **c.** Source Phone Prefix = \*
  - **d.** Dest. IP Address = the IP address of the Fax server.
  - e. Port = 5060 (the port number of the Fax server application).

#### Figure 3-13: Outbound IP Routing Table

0	ute	oound IP Routing Table										
	Advanced Parameter List 👻											
<b>T</b>												
			Routing	Index		1-10	•					
			Tel To I	IP Routing Mode		Route o	alls before mai	nipulation 💌				
										_		
E	5	Src. Hunt Group ID Dest. Phon	e Prefix	Source Phone Prefix	->	Dest. IP Address	Port	Transport Type	Dest. IP Group ID	Dest. SRD	IP Profile ID	Cost Group ID
	1	1 FAX		*		10.21.3.76	5060	UDP 💌	-1	-1	0	None 💌
	2	1 *		*		10.62.0.42	5060	UDP 💌	-1	-1	0	None 💌
	3							Not Configured 💌	-1			None 💌



#### **Notes:** (Refer to the figure above)

- All fax and voice calls arrive from Hunt Group 1 (Trunk Group 1).
- The first line is for routing the fax to the Fax server.
- The second line is for routing all other calls to the Skype for Business or IP-PBX system.
- Under the Configuration menu, access VoIP > GW and IP to IP > Manipulations > Dest Number Tel > IP, and then add a new rule as follows:
  - On the Rule tab:
    - Destination Prefix = FAX
    - Source Prefix = \*
    - Source Trunk Group = assign the source trunk or IP group number

#### Figure 3-14: Adding a Rule

Rule Action	
Index	1
Destination Prefix	FAX
Source Prefix	*
Source Trunk Group	1
Source IP Group	-1
Destination IP Group	-1
	Submit × Cancel

- On the **Action** tab:
  - Stripped Digits From Left = assign the stripped number according to your dial plan.
- 9. The minimum number is **3**, as you must strip the 'FAX' prefix first.

#### Figure 3-15: Adding a Rule - Action

Rule Action	
Index	1
Stripped Digits From Left	3
Stripped Digits From Right	0
Number of Digits to Leave	255
Prefix to Add	
Suffix to Add	
TON	Not Configured
NPI	Not Configured
Presentation	Not Configured
	Submit × Cancel

### 3.2.2.1 Fax Call Flow Sample

#### **Original Call**

CLI – 031234567 DN – 039764001 Call destination IP Address - <IP address of the IP-PBX> After Fax Detection CLI – 031234567 DN – FAX039764001 After Number Manipulation CLI – 031234567 DN – 4001 (Stripped Digits From Left = 8) Call destination IP Address - <IP address of the Fax server application>

## 3.3 Configuring the Fax Server's Ports

The Fax server installation sets several ports to default values, in order to enable correct the operation of the Fax server application. The table below details these ports.

Port used for	Description	Port #
Management	Enables Fax server management using the Web interface	8090
SMTP	Enables connection to the SMTP server	25
LDAP	Enables connection to the Active Directory	389
VOIP	SIP	5060
RTP	VoIP Media Ports	Configurable Default: 49000-59000

## 3.4 Configuring LDAP Settings

The Fax server uses the enterprise's Active Directory records to determine the owner of an incoming fax. The Fax server queries the enterprise's Active Directory using LDAP (Lightweight Directory Access Protocol).

See the *Fax Server Administrator's Guide* for instructions on how to configure the Fax Server application with the enterprise's Active Directory.

## 3.5 Activating the Fax Server License

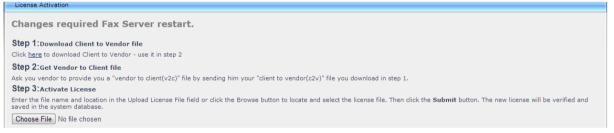
When the Fax server application is supplied preinstalled on the AudioCodes Gateway, the Fax server license is already activated.

When the Fax server application is installed on the customer's server, the license can be activated only after the application is installed. To obtain a permanent license, the Fax server system ID must be provided. The Fax server system ID is the Client to Vendor (\*.c2v) file.

#### Notes:

- The Fax server license is associated with the installed system's serial number. An installed and licensed Fax server system must not be cloned to a different Virtual Machine instance. Doing so will disable the Fax server license.
- The Fax server application is activated with a temporary license for a period of 90 days for two fax ports immediately after the installation. The temporary license can be activated only once and it useful for evaluation purposes or for using the system until the permanent license is activated.
- To activate the Fax Server permanent license:
- 1. In the Web interface, access the License Activation page (**Configuration** menu > License > License Activation):

#### Figure 3-16: Web Interface - License Activation



- 2. If you already have the new license file (Vendor to Client \*.v2c), skip to Step 5.
- 3. If not, then in the License Activation page shown above, under **Step 1**, click the <u>here</u> link and then save the **Client to Vendor** file to your PC.
- 4. Send the .C2V file with the AudioCodes Sales order number (SO) to the following e-mail address: <u>SPS\_License@audiocodes.com</u>. In case you don't have the AudioCodes SO, please obtain it from the channel partner or local distributor that submitted this order with AudioCodes.

AudioCodes will generate a valid license according to your order and will send it to you via an e-mail reply. The license is a **Vendor to Client** (*.V2C*) file.

- 5. When you receive a valid Fax server License Key (Vendor to Client file) from AudioCodes:
  - a. Access the License Activation page.
  - b. Load the Vendor to Client file that you received from AudioCodes.
- 6. Click Submit.
- 7. Restart the Fax server; the license is activated.

## 3.6 Setting the Neevia License

After activating the Fax server license, you need to set the Neevia license manually.

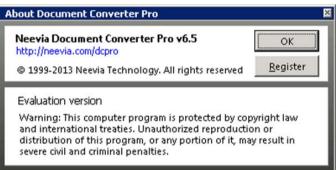
- > To set the Neevia license manually:
- 1. Obtain the key from the FAX License Information screen:

#### Figure 3-17: FAX License Information – Getting the Key

Configuration Management Status		License Inform
Configuration Management & Diagnos	FAX License Inf	ormation
	Max Fax In Users	1000
	Max Fax In Ports	8
€ 🗐 Security Settings	Max Fax Out Ports	8
E License	Max Fax Out Users	1000
License Information	Fax Converter license key	
License Activation	Expiration date	01/01/2030
Network Settings	Days Left	5818
⊕ a Backup ⊕ Auto Attendat Backup	Туре	expiration
	Attendant License	Information
	License version	1
	Number of ports	10
	ACD	10

2. Open the Neevia Document Converter Pro, and then click Help > About.

Figure 3-18: Neevia	Document	Converter	Pro -	Help -	About
---------------------	----------	-----------	-------	--------	-------



3. Click Register.

Figure 3-19: Neevia Document Converter Pro - Register

Register Neevia Document Converter Pro	×
User Name: Company Name:	
<u>S</u> erial Number:	



#### 4. Define the Register parameters. Use the table below as reference.

#### Table 3-3: Neevia Document Converter Pro - Register

Parameter	Description
User Name	AudioCodes
Company Name	The company
Serial Number	Copy from the web page

#### 5. Restart the 'Fax Converter' service and 'Email To Fax' service.

#### Figure 3-20: Restarting 'Fax Converter' and 'Email To Fax' Services

Configuration Management 8 Diagnostic	Service	Status	Up Time	Handles	Threads
	Fax To Email	Running 👩 🚱	6 days, 21:56:11	327	15
Logs Call Logs	Email To Fax	Running 🧿 🚱	5 days, 00:20:29	386	15
System Status System Status 9 Test	System Watchdog	Running 🚱	7 days, 01:27:53	564	16
	Fax Server	Running 👩 🚱	13 days, 21:50:56	256	12
	Fax Engine	Running 👩 🚱	13 days, 21:52:30	142	8
	Fax Converter	Running 👩 🚱	5 days, 18:58:49	86	8
	Mail Server	Running 👩 🚱	13 days, 22:47:00	383	58
	IVR	Running 👩 😥	00:16:57	785	35

## 3.7 Backing Up and Restoring Configuration Settings

The Fax server provides an easy and quick way to back up and restore your configurations. It's recommended to back up the configuration before making any major changes.

The backup mechanism backs up all your system settings including architecture, users, administrators, configuration, and LDAP configuration.

See also the Fax Server Administrator's Guide.

### 3.8 Changing Fax Server E-mail Customization

The Fax server application allows you to customize the e-mails that are sent to users. For example, you can customize the subject of the e-mail, Body message, etc. For more information, refer to the *Fax Server Administrator's Guide*.

## 3.9 Changing the Server IP Address

If the Fax server IP address changes, you need to run a script that updates the Fax server with the new IP address.

#### To change the Fax server's IP address:

- 1. Change the Fax server's IP address.
- 2. Go to C:\Program Files (x86)\Commetrex\otf\bin
- 3. Run otf\_set\_ip.
- 4. Open Start > Administrative Tools > Services.
- 5. Start the **BladWare** service and the **Fax\_Receiver** service.



Note: The Fax server must not have more than one IP address.

## 3.10 Disabling the Windows Firewall and Anti-Virus

After you add the Fax server to the company domain, Windows automatically enables the server domain network Firewall; you must then consequently disable it.

- > To disable the Windows Firewall and Anti-Virus:
- 1. Open the **Windows Firewall**, go to **Domain networks** and then select the **Turn Windows Firewall on or off** link to disable the firewall (as shown in the figure below).

#### Figure 3-21: Windows Firewall

👹 Windows Firewall		
😋 🕞 🗢 💣 🔹 Control Panel 🔹 Sy	ystem and Security 👻 Windows Firewall	👻 🔯 Search Control Panel
Control Panel Home	Help protect your computer with Windows F	irewall
Allow a program or feature through Windows Firewall	Windows Firewall can help prevent hackers or malici Internet or a network.	ious software from gaining access to your computer through the
Change notification settings	How does a firewall help protect my computer?	
🛞 Turn Windows Firewall on or off	What are network locations?	
🛞 Restore defaults	Update your Firewall settings	
😗 Advanced settings	Windows Firewall is not using the recommend	ded 🛞 Use recommended settings
Troubleshoot my network	settings to protect your computer. What are the recommended settings?	
	Domain networks  Networks at a workplace that are attached to a do	connected
	Windows Firewall state:	On
	Incoming connections:	Block all connections to programs that are not on the list of allowed programs
	Active domain networks:	Lync.local
	Notification state:	Do not notify me when Windows Firewall blocks a new program
See also	lome or work (private) networks	Not Connected
Action Center	🕺 Public networks	Not Connected
Network and Sharing Center	<b>.</b>	

- 2. Do the following:
  - Windows Updates:
    - Disable to prevent unknown side effects to the Fax/IVR application (recommended). AudioCodes only certifies major Service Pack updates.
  - Anti-Virus Software:
    - No anti-virus software is included with the Fax/IVR.
    - No specific anti-virus software is tested or certified with Fax/IVR.
  - Windows Defender:
    - Disable the Windows Defender.

## 4 Installing Auto Attendant IVR

This chapter describes how to install the AA IVR application.

### 4.1 Before Installing Auto Attendant IVR

Before installing the AA IVR server, do the following:

- Verify that all prerequisites have been enabled. See Section 2 on page 17.
- Verify that the AA IVR server was joined to the domain.
- Copy the Skype for Business installation DVD to the AA IVR server.
- Perform the installation of the Skype for Business Local Storage using a domain user with Skype for Business management credentials. This is required for the purpose of the installation only. See Appendix B on page 63 for instructions on how to install Skype for Business Local Storage.
- > To perform the Skype for Business AA IVR setup:
- 1. Install the Skype for Business Local Store on the AA IVR server (see Appendix B ).
- 2. Add the AA IVR as a trusted application towards the SBA/Skype for Business FE.

To perform these operations from the AA IVR server, you need to log into the AA IVR server with a user who has the required permissions on the Skype for Business server, in addition to permissions to perform the following operations:

- Enable access to the Certificate Authority (during the activation you will be prompted for the Certificate).
- Enable access for the DNS to add a record.



**Note:** AudioCodes provides a script that automatically performs the above actions. To run this script, you need all the necessary permissions as specified above.

## 4.2 Auto Attendant IVR Installation

The procedure below shows how to install the AA IVR on Skype for Business.

- > To install AA IVR:
- 1. Run *fax\_att\_setup* located in C:\Fax\_Att\_Setup.

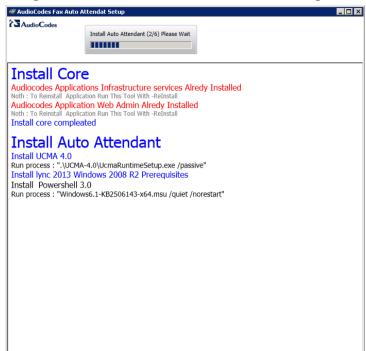
Figure 4-1: Setup - AA IVR

☞ Fax Auto Attendat Setup (Version 2.0.18)	
Current installed version : 2.0.18	
Select the application(s) you wish t	o install
□ Fax Server	
Auto Attendant IVR	
Auto Attendant IVN	
Microsoft Lync Version	
Lync 2013 O Lync 2010 O Skype for business O No	ine
Deve	
View Status	
<u>view status</u>	

2. Select the 'Auto Attendant IVR' option, select your Lync environment version (Lync 2013, Lync 2010 or Skype for Business) version, and then click **Run** to continue the installation; the following screen is displayed:



**Note:** Click the **None** option for a standalone (i.e. non-Lync environment) AA IVR installation.



#### Figure 4-2: Auto Attendant IVR Installation Progress



**Note:** If the Fax server is already installed, it's unnecessary to select the option again. Clearing this option will not uninstall an installed service.

- 3. After installing several Microsoft components, restart as prompted by the wizard.
- 4. Install the Skype for Business local storage from Skype for Business setup (see Appendix B on page 9).
- 5. Run the *fax\_att\_setup* wizard again, select 'Auto Attendant IVR' and ' Skype for Business ' according to the Skype for Business version selected in the above step, and then click **Run** to finish the services installation.

The IVR setup will run manually because user interaction is required to perform specific configuration actions.



#### Figure 4-3: Welcome to IVR Setup

6. Click **Next**; the Select Destination Location screen is displayed:

Figure 4-4: Select Destination Location

ing folder.	
select a different folder, click	Browse.
	Browse
ed.	
< Back Next >	Cancel
	ed.

7. Click Next; the Select Start Menu Folder is displayed:

#### Figure 4-5: Select Start Menu

Setup - IVR	
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start	Menu folder.
To continue, click Next. If you would like to select a different folder, clic	k Browse.
Audiocodes\IVR	Browse
< Back Next >	Cancel

8. Click **Next**; the Ready to Install screen is displayed:

Figure 4-6: Ready to Install

💦 Setup - IVR	
<b>Ready to Install</b> Setup is now ready to begin installing IVR on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\Audiocodes\IVR	<u> </u>
Start Menu folder: Audiocodes\IVR	
<b>I</b>	
< <u>B</u> ack	Cancel



**9.** Click **Install**; the IVR AA is installed. A confirmation screen is displayed when the installation procedure has completed.

🏠 Setup - IVR	
	Completing the IVR Setup Wizard
	Setup has finished installing IVR on your computer. The application may be launched by selecting the installed icons.
	Click Finish to exit Setup.
	Activate IVR on Lync server
	Einish

Figure 4-7: Completing IVR Setup

**10.** Select the 'Activate IVR on Lync server' check box, and then click **Finish**.



Note: For standalone (i.e. non-Lync installation) AA IVR installation, leave this option unchecked.

- **11.** If you wish to perform the activation towards the Skype for Business server automatically (recommended), select the 'IVR Activation' option.
- **12.** If you wish to perform the IVR activation manually, refer to the *Manual IVR Activation* document. This document is located at *C:\Program Files\Audiocodes\IVR\PowerShell*.

#### Notes:

- The activation procedure described in this document is a Microsoft UCMA requirement for creating a trusted UCMA application. The activation procedure is fully described in <u>http://msdn.microsoft.com/en-</u> us/library/office/dn466114(v=office.15).aspx.
- The IVR application must be provisioned as an auto-provisioned application as described in <u>http://msdn.microsoft.com/en-</u> us/library/office/dn466123(v=office.15).aspx.
- If you clear the 'Activate IVR on Lync server', you will be able to perform it by opening Start > All Programs > AudioCodes > IVR > Activation > Activate IVR.
- **13.** The screen below shows a system with a single CA in the network. In case there is more than one CA, the script will prompt you to choose which CA to use for the certificate.

14. Select the site for the trusted CA application pool (this is usually one of the SBA server sites).

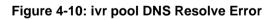
Figure 4-8: Administrator: Windows PowerShell

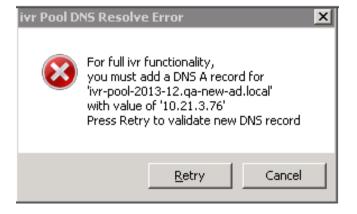
Z Administrator: Windows PowerShell	
Please wait while loading lync module	
Lync 2013 identified Computer FaxIvr10.ga-new-ad.local is not part of trusted application pool	
[1] Site:QASite1	
[ 2 ] Site:SBA_EREZ2	
[3] Site:SBA_EREZ3	
[ 4 ] Site:SBA_W15_ATT	
[5] Site:SBA_E1 [6] Site:SBA_E2	
[7] Site:SBA-g1	
[ 8 ] Site:SBA_OSN3B_APPS	
[9] Site:SBA-QA12	
[ 10 ] Site:SBA-Q4	
[ 11 ] Site:SBA-QA13	
[ 12 ] Site:SBA-W1 [ 13 ] Site:SBA-NITZ	
[ 13 ] Site:SBA-NITZ [ 14 ] Site:SBA-Q5	
$\begin{bmatrix} 11 \\ 1 \end{bmatrix} \circ 110 \circ 100 \circ 1000 \circ 100 \circ 10$	
[ 16 ] Site:SBA-07	
Select site for the trusted application pool. Enter a number between 1 and	16: _
	-

- 15. Select the correct FE/SBA on which it is requested to activate the IVR.
- 16. At the end of this process, the following message may appear.

Figure 4-9: Administrator: Windows PowerShell Message

🔁 Administrator: Windows PowerShell	_ 🗆 ×
Waiting for local replication update 5 seconds (up to 10 minutes) Waiting for local replication update 10 seconds (up to 10 minutes)	<b>_</b>
Enable-CsReplica Enable-CsReplica New-CsTrustedApplicationPool New-CsTrustedApplicationPool Update Service Assignments Enable-CsTopology Enable-CsTopology jur	
Waiting for local replication update 60 seconds (up to 10 minutes) Waiting for local replication update 65 seconds (up to 10 minutes) Waiting for local replication update 70 seconds (up to 10 minutes) Waiting for local replication update 70 seconds (up to 10 minutes) Waiting for local replication update 80 seconds (up to 10 minutes) Waiting for local replication update 85 seconds (up to 10 minutes) Waiting for local replication update 95 seconds (up to 10 minutes) Waiting for local replication update 95 seconds (up to 10 minutes) Waiting for local replication update 95 seconds (up to 10 minutes) Waiting for local replication update 100 seconds (up to 10 minutes) Waiting for local replication update 105 seconds (up to 10 minutes) Waiting for local replication update 110 seconds (up to 10 minutes) Waiting for local replication update 110 seconds (up to 10 minutes) Waiting for local replication update 110 seconds (up to 10 minutes)	
Failed to resolve ivr-pool-2013-12.qa-new-ad.local	







**17.** In the event of the above, you need to add the A record to the DNS according to the information below (different DNS per system), add the IVR pool to the DNS, and then click **Retry**.

Figure 4-	11: <i>1</i>	Add IVR	Pool t	o DNS
-----------	--------------	---------	--------	-------



- **18.** Click **OK**.
- **19.** After the local replication is up-to-date, the following screen is displayed:

Figure 4-12: Local Replication

🗷 Administrator: Windows PowerShell	_ 🗆 🗙
Waiting for local replication update 5 seconds (up to 10 minutes) Waiting for local replication update 10 seconds (up to 10 minutes) Waiting for local replication update 15 seconds (up to 10 minutes) Waiting for local replication update 20 seconds (up to 10 minutes) Waiting for local replication update 25 seconds (up to 10 minutes) Waiting for local replication update 30 seconds (up to 10 minutes) Waiting for local replication update 35 seconds (up to 10 minutes) Waiting for local replication update 35 seconds (up to 10 minutes) Waiting for local replication update 40 seconds (up to 10 minutes) Waiting for local replication update 45 seconds (up to 10 minutes) Waiting for local replication update 45 seconds (up to 10 minutes) Waiting for local replication update 45 seconds (up to 10 minutes) Replication is up to date ivr application endpoint sip:ivr_yacov1@ga-new-ad.local already exists ivr application activated successfully You can safely close this windows	
PS C:\Program Files\Audiocodes\IVR>	



Note: The replication can take a very long time depending on the system size and network speed.

**20.** Close this window.

#### Figure 4-13: Fax Auto Attendant Setup

AudioCodes Fax A	uto Attendat Setup	- 🗆 ×
AudioCodes		
Running process : Installing Lync : Installing Powe Running process : Enabling Deskto Running process :	: "Windows6.1-KB2506143-x64.msu /quiet /norestart" op Experience : "dism /norestart /online /enable-feature /featurename:DesktopExperience" e Servicing and Management tool .16385	*
Installing WIF	s) npleted successfully. : "Windows6.1-KB974405-x64.msu /quiet /norestart"	
Detecting Lync Se	rver Version	
Name	Version	
Microsoft Lync Se	rver 2013, Core Components 5.0.8308.0	
Running process : Installing Audio Running process :	Attendant IVR Trial License "audc_att_hasp.exe -i -cm" codes IVR "IVR-Lync2013-Core-Setup.exe" IVR installation completed	
In order to fin	alize the installation please restart the computer	
Click <u>here</u> to e	exit and restart the computer	
** FINISH *	*	-

**21.** Restart the server; the installation is complete.

## 4.3 Activating the IVR Server License

The IVR server application can't be supplied preinstalled because the installation must be performed **after** joining to a domain.

The license must be activated only after the application is installed. To obtain a permanent license, the IVR Server system ID must be provided. The IVR Server system ID is the Client to Vendor (\*.c2v) file.

#### Note:



License Activat

- The IVR Server license is associated with the installed system's serial number. An
  installed and licensed IVR Server system must not be cloned to a different Virtual
  Machine instance. Cloning to a different VM will disable the IVR Server license.
- The IVR Server application is activated with a temporary license for a period of 90 days starting immediately after the installation. The temporary license can be activated only once and it useful for evaluation purposes or for using the system until the permanent license is activated.

#### > To activate the IVR Server license:

1. In the Web interface, access the License Activation page (Configuration menu > License > License Activation):

#### Figure 4-14: Web Interface - License Activation

```
Changes required Fax Server restart.

Step 1:Download Client to Vendor file
Click here to download Client to Vendor - use it in step 2

Step 2:Get Vendor to Client file
Ask you vendor to provide you a "vendor to client(v2c)" file by sending him your "client to vendor(c2v)" file you download in step 1.

Step 3:Activate License
Enter the file name and location in the Upload License File field or click the Browse button to locate and select the license file. Then click the Submit button. The new license will be verified and
saved in the system database.

Choose File
No file chosen
```

- 2. In the License Activation page shown above, under Step 1, click the here link and then save the Client to Vendor file to your PC.
- Send the .C2V file with the AudioCodes Sales Order (SO) number to the following email address: <u>SPS\_License@audiocodes.com</u>. In case you don't have the AudioCodes SO, please obtain it from the channel partner or local distributor that submitted this order with AudioCodes.
- 4. AudioCodes will generate a valid license according to your order and will send it to you via an e-mail reply. The license is a **Vendor to Client** (*.V2C*) file.
- 5. When you receive a valid IVR server License Key (Vendor to Client file) from AudioCodes:
  - a. Access the License Activation page.
  - b. Load the Vendor to Client file that you received from AudioCodes.
- 6. Click Submit.
- 7. Restart the IVR server; the license is activated.



**Note:** If IVR and Fax are running on the same server, then you need to perform the license request twice – once for every product – and you must install the **Vendor to Client** file that you received from AudioCodes for the first product before performing the license request for the second product. For example: if you have fax and IVR on same server and you requested an IVR license, then after obtaining the license, you need to load it to the server via the Web and afterwards prepare a another C2V file and send it to AudioCodes for requesting the second request for the Fax license.

## 4.4 Adding a New Language Pack

The IVR installation includes only the EN-US language pack. To add new language pack, you need to install the required language from the **Microsoft Speech Platform - Runtime Languages**.

- To add a new language pack:
- 1. Follow the instructions on Microsoft's website. For Skype for Business refer to <u>http://www.microsoft.com/en-us/download/details.aspx?id=27224</u>.
- To add a language to Auto Attendant IVR you must install both an SR (Speech Recognition) language and a TTS (Text To Speech) language. For example, to add Italian you must install both MSSpeech\_SR\_it-IT\_TELE.msi and MSSpeech\_TTS\_it-IT\_Lucia.msi.



#### Note:

- The installation does not provide any visual feedback that the installation succeeded.
- You must restart AA IVR after installation.

#### **Configuring Exchange SMTP Connector** Α

This appendix shows how to configure the Exchange SMTP Connector for those users who have an Exchange server and who are deploying the Fax server application.

#### ≻ To configure the Exchange SMTP connector:

In the Exchange Management Console, navigate to Organization Configuration > 1. Hub Transport, and then click the Send Connectors tab.

#### Figure A-1: Exchange Management Console - Send Connectors

•	aclmbx02 - Remote Desktop Connec	tion		
🔀 Exchange Management Console				
File Action View Help				
🗢 🔿 🔰 🖬 📓 🗊				
8 Microsoft Exchange	🗟 Hub Transport			
🖸 🙋 Microsoft Exchange On-Premises (aclcas-01.corp.audiocodes.)				
Grganization Configuration     Ailbox	Treate Filter	· · ·	1.5	
Client Access				
📸 Hub Transport	Name 🔺	Status		
📸 Unified Messaging	🔜 🔜 email to fax	Enabled		
Server Configuration	🚽 🛃 email to fax -( fax.server )	Enabled		

Right-click the email to fax entry, and then from the menu, choose Properties > 2. General.

Figure A-2: Email to Fax Properties - General
email to fax - (fax.server) Properties 🛛 🗙 🗙
General Address Space Network Source Server
email to fax - ( fax server )
Connector status: Enabled
Modified: Monday, December 09, 2013 5:44:13 PM
Protocol logging level:
Specify the FQDN this connector will provide in response to HELO or EHLO:
(Example:mail.contoso.com)
✓ Maximum message size (KB): 10240
OK Cancel Apply Help

Figure A-2: Email to Eav Properties - General

# AudioCodes

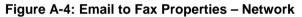
3. In the 'email to fax – Properties' screen, click the **Address Space** tab, and then specify the address space(s) to which this connector will route mail.

oppoil to fr	ax - ( fax.serve		whipe			×	
email to ra	ix - (Tax.serve	er ) Prope	rties			<u> </u>	
General	Address Space	Network	Source Serve	r)			
Coooifi	Specify the address space(s) to which this connector will route mail:						
	ine address spa id 💌 🥖 <u>E</u> dit		lich this connect	or will route in	Idil.		
		-					
Туре			ddress		Cost		
SMT	-	R	ax.server		1		
•							
🗌 🗌 So	oped send conn	ector					
E.		OK	Cancel	Apply		Help	

Figure A-3: Email to Fax Properties – Address Space

4. In the 'email to fax – Properties' screen, click the **Network** tab.

e



email to fax - ( fax.serve	r ) Prope	rties	×			
General Address Space	Network	Source Server				
Select how to send mail with this connector:						
◯ Use domain name system (DNS) "MX" records to route mail automatically						
🔲 Enable Domain S	Security ( <u>M</u> i	utual Auth TLS)				
Route mail through t	he following	g <u>s</u> mart hosts:				
🛟 Add 🥢 Edit	🗙					
Smart host						
[10.1.1.16]						
			_			
Smart host authentic	ation:					
None		<u>C</u> ha	nge			
Use the External DNS Lookup settings on the transport server						
5	OK	Cancel Apply	Help			

5. Select how to send mail with this connector.

## B Installing the Skype for Business Local Storage

The procedure below shows how to install the Skype for Business local storage. Perform this procedure prior to installing the AA IVR (see Chapter 4).

- > To install the Skype for Business Local Storage setup.
- 1. Open the Skype for Business setup DVD/folder, and then run the following: \Setup\amd64\Setup.exe.

🔂 🚹 = 1	Application Tools			amd64
File Home Shar	e View Manage			
€ 💿 - ↑ 📕 • 1	This PC + DVD Drive (E:) CD_ROM + Setup + am	d64 🕨		
☆ Favorites	Name	Date modified	Туре	Size
Desktop	🎉 Setup	4/10/2015 2:21 PM	File folder	
Downloads	🌽 WindowsFabric	4/10/2015 2:32 PM	File folder	
💹 Recent places	Interop.WindowsInstaller.dll	4/10/2015 8:14 AM	Application extens	56 KI
	Microsoft.Deployment.WindowsInstaller	4/10/2015 8:20 AM	Application extens	192 Ki
🌉 This PC	Microsoft.Rtc.Management.Update.dll	4/10/2015 8:09 AM	Application extens	233 K
	B Microsoft/dentityExtensions	3/11/2015 11:59 AM	Windows Installer	252 K
Vetwork	msvcp120.dll	3/11/2015 11:52 AM	Application extens	645 KI
	S msvcr120.dll	3/11/2015 11:52 AM	Application extens	941 K
	rewrite_2.0_rtw_x64	3/11/2015 11:59 AM	Windows Installer	6,271 KI
	🐻 Setup	4/10/2015 8:52 AM	Application	514 K
	🐻 Setup2	4/10/2015 8:22 AM	Application	531 K
	SharedManagementObjects	3/11/2015 11:52 AM	Windows Installer	7,572 K
	SkypeOnlinePowershell	3/18/2015 8:44 PM	Application	8,401 KI

Figure B-1: Skype for Business Local Storage Setup

2. The following message may be displayed; click Yes.

Figure B-2: Skype for Business Server 2013 File Location

Skype for Business Server 2015	×
Skype for Business Server	
To install Skype for Business Server 2015, Core Components and start the Deployment V click Install	Vizard,
Check for Updates?	
<ul> <li>Connect to the internet to check for updates</li> </ul>	
On't check for updates right now	
Specify the location for the installation files. Any additional Skype for Business Server components that you install will also go to this folder Installation Location:	
C:\Program Files\Skype for Business Server 2015	rowse
Help Install (	Cancel

3. Click Install.

Figure B-3: Skype for Business Local Storage License Agreement

ត	End User License Agreement	x
	License Agreement	
Please read	d the following license terms carefully	
MICROS	OFT SOFTWARE LICENSE TERMS	^
	OR BUSINESS SERVER 2015 STANDARD AND ENTERPRISE EDITIONS R RESALE)	
MSDN Pro applicable	ensed Skype for Business Server 2015 through Microsoft's Volume Licensing or ograms, your use of this software is subject to the terms and conditions of the Program agreements. You may not use this software if you have not validly a license for the software from Microsoft or its licensed distributors.	
	ense terms are an agreement between Microsoft Corporation (or based on u live, one of its affiliates) and you. Please read them. They apply to the	~
🗹 l accep	ot the terms in the license agreement	
	OK Cancel	

4. Check the 'I accept the terms' check box, and then click **OK**; the following screen is displayed:

Figure B-4: Skype for Business – Deployment Wizard – Prepare Active Directory

5	Skype for Business Se	rver 2015 - Deploy	ment Wizard	x
	Skype for Business Server 2015 Welcome to Skype for Business Server deployment.			
Deploy				2
	Prepare Active Directory Prepares the Active Directory schema, forest, and do Business Server.		Prepare first Standard Edition server Prepares a single Standard Edition server to host Central Management Service. Note: This task requires local administrator	^
	Help  Complete Install or Update Skype for Business Server System Install or update a Skype for Business Server Server deployment member		rights. This task does not apply to Standard Edition Servers that are not planned to host the Central Management Service, or for deployments that include Enterprise Edition.	
	local replica configuration store. Note: Before installing a server, you need to have a v and published.	m. option installs Skype for Business Server core components, and a replica configuration store. : Before installing a server, you need to have a valid topology created		=
	Help >		Deploy Monitoring Reports Deploy Monitoring Reports to selected SQL Server Reporting Services (SSRS) instances.	
	Prepare	Active Directory Compl	Lync Media Quality Dashboard	
			provides OLAP reports to Lync administrators to help troubleshoot Call Quality issues.	
			First Run Videos Click to view getting started videos.	
			Documentation Click to view the latest Skype for Business	~
			Back Exit	

Verify that you see the Complete indication for Prepare Active Directory.
 Figure B-5: Skype for Business Deployment Wizard– Install or Update

3	Skype for Business Server 2015 - Deployment Wiz	ard	×
Install or update	member system		
eploy > Install or up	sdate		2
	al Configuration Store al configuration store and populates with data from Central Management Sto	ore.	^
Prerequisit Help +	les )	Run	
	Remove Skype for Business Server Components activate, or deactivate and uninstall Skype for Business Server Components b	ased on the topology	
Not Availa	ble: Local configuration store not available.		
Prerequisit	tes +		
Help 🕨		Run	
This step s	Install or Assign Certificates tarts the Certificate Wizard. Create certificate request for local system. Install, n based on the topology definition.	and assign certificates for	
Not Availa	ble: Local configuration store not available.		
Prerequisit	tes +		
Help 🕨		Run	
You can st To start th	ices re installed Skype for Business Server on all of the servers in the pool, you'll n art the services in a pool with the Skype for Business Server cmdlets. e services in a user pool, connect to one of the servers in the pool and run th	e Start-CsPool cmdlet. All	
		Back	Exit

6. Select **Install Local Configuration Store**, and then click the adjacent **Run** button; the following screen is displayed:

Figure B-6: Configure Local Replica of Central Management Store

ā	Install Loca	I Configurati	on Store			×
S Co	onfigure Local Replica of	Central Ma	nagement	Store		
Data can be r	retrieved directly from the Central	Management s	tore or importe	ed from a file		
	directly from the Central Managen nent store)	nent store (requ	ires read acces	is to the Cent	ral	
O Import fro	om a file (recommended for Edge	Servers)				
	ate a configuration file, run the Ex the Central Management store.	port-CsConfigur	ation cmdlet o	on a compute	r that has	
					Browse	1
Help		[	Back	Next	Cancel	
				-		_

# AudioCodes

7. Select the 'Retrieve directly from Central Management store' check box, and then click **Next**; the following screens are displayed:

#### Figure B-7: Skype for Business Deployment Wizard- Executing Commands

7	Install Local Configuration Store	×
S	Executing Commands	
Cachin Cachin Cachin Cachin Cachin Cachin Cachin Cachin Cachin Cachin	g file setup\ReachFonts.msi g file setup\AdminTools.msi g file setup\BackupService.msi g file setup\XmppTGW.msi g file setup\XmppProxy.msi g file setup\MgcServer.msi g file setup\VISSvc.msi g file setup\VISSvc.msi g file vcredist_x64.exe g file SQLEXPR_x64.exe g file sqlncli.msi	< 10 >
Help	▼ View Lo Back Finish Cance	

Figure B-8: Skype for Business Deployment Wizard– Executing Commands - Finish

ō	In	stall Local Conf	iguration Store			2
S E	ecuting Comma	inds				
Creating ne [2015_05_07 "Enable-CSI Detailed res [2015_05_07 > Replicate Logging sta	[][09_10_17].html". Replica" processing ha ults can be found at "( [][09_10_17].html". CsCmsCertificates	Iministrateur\AppDa s completed succes: C:\Users\administrat	ta\Local\Temp\2\Enabl	mp\2\Enable	-CSReplica-	•
Task status: (	Completed.					
Bootstrap loo	al machine			•	View Lo	9
Help			Back	Finish	Cancel	

8. Click Finish and Exit.

## **C** Microsoft Windows Update

After you add the Fax AA IVR VM to the SBA, you should update Microsoft Windows.

- To update Microsoft Windows:
- 1. Manually run Windows Update.
- 2. Disable Automatic Update 'Never check for updates' to prevent unknown side effects to the Fax AA IVR application (recommended). AudioCodes only certifies major Service Pack updates.



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1.

## **D** Running Anti-Virus Software

The procedure below shows how to run anti-virus software on FAX AA IVR and Microsoft Skype for Business components.

## D.1 Running Anti-Virus Software on FAX AA IVR Components

When Anti-Virus software is run on FAX AA IVR components, do the following:

- Ensure that the following process is excluded from Anti-Virus scanning:
- ivr.exe process
- 2. In addition, ensure that the following directories are excluded:
  - C:\F2MAdmin\faxsender\ + sub directories \*.xml, \*.tiff
  - C:\F2M\commetrex\ \*.xml, \*.tiff
  - C:\F2MAdmin\log\faxreceiver\\*.log
  - C:\Program Files (x86)\Commetrex\otf\bin\Logs\\*.txt
  - C:\F2MAdmin\ sub directories \\*.\*
  - C:\F2M\ sub directories \\*.\*
  - C:\fax2email\db\\*.\*
  - C:\Program Files\hMailServer\ sub directories \\*.\*
  - C:\Program Files (x86)\neevia.com\docConverterPro\ sub directories \\*.\*

### D.2 Running Ant-Virus software on Microsoft Skype for Business Components

Antivirus software can sometimes make such heavy demands on the CPU as to cause audio glitches. For this reason, antivirus software is not recommended for computers running Microsoft Skype for Business. For optimal performance for a server that must run antivirus software, include all Communications Server/Skype for Business computers in the antivirus software's exception list.

- Ensure that the following processes are excluded from Anti-Virus scanning:
  - ASMCUSvc.exe
  - AVMCUSvc.exe
  - DataMCUSvc.exe
  - DataProxy.exe
  - FileTransferAgent.exe
  - IMMCUSvc.exe
  - MasterReplicatorAgent.exe
  - MediaRelaySvc.exe
  - MediationServerSvc.exe
  - MeetingMCUSvc.exe
  - MRASSvc.exe
  - OcsAppServerHost.exe
  - QmsSvc.exe
  - ReplicaReplicatorAgent.exe
  - RTCArch.exe

For more information, see <u>http://technet.microsoft.com/en-us/library/gg195736.aspx.</u>



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## **E** Firewall Settings on Skype for Business

As part of the IVR activation process, the "Enable Central Management store replication" phase requires that the server will be in the firewall allow list.

In this stage, configuration data from the Central Management store is updated to servers running Skype for Business (AA server).

For this purpose, port 445 must be opened in the Firewall rules.

The IT department should verify that the IP ports that are specified in the link below, are opened in the internal server http://technet.microsoft.com/en-us/library/gg398833.aspx.



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## F Configuring the Windows Server for Microsoft Office 2013

This appendix shows how to configure the Windows server when installing Microsoft Office 2013 for converting office files.

- > To configure the Windows server for Microsoft Office 2013:
- 1. Log in to the Windows server via the local user defined for the fax.
- 2. Manually open Microsoft Office 2013 applications: Word, Excel, and PowerPoint. Verify that you don't receive any error messages (e.g. invalid license etc.).
- 3. Type 'dcomcnfg' in the command prompt, and then click Enter.
- 4. Click Component Services group > Computers > My Computer > DCOM Config.
- Find and select the Microsoft Word entry (it may contain Application or 2013 in its name) (Right-click Properties > Security tab).
- 6. Under Access Permission, select the 'Customize' option, and then click Edit.
- 7. Click **Add** and enter the "Everyone" user account along with the account used by the Fax server.
- 8. Click the **Identity** tab.
- **9.** Select the 'This user' option, click **Browse**, specify the account used by the Fax server, and then enter and re-enter the Password.
- **10.** Click **Apply** and **OK**.
- 11. Repeat the above steps for Excel and PowerPoint.
- **12.** Restart the Windows server.



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## **G** Fax Conversion Troubleshooting

This appendix describes how to change the fax conversion RTF engine file association to Microsoft Word.



**Note:** Sometimes the fax server fails to convert RTF format files. To resolve this issue, the user should install Microsoft Office on the Fax2Mail Windows server.

#### > To change RTF engine to WORD:

1. In the Neevia Document Converter Pro screen, open the Input Folders page (Settings > Folders...).

🔅 Neevia Docume	ent Converter Pro	- • •		
Converter View	Settings Help			
	🧟 Folders			
Files in gueue:	🖂 Email watcher			
	X Advanced Settings			
[3:44:14 PM] DC Pro version: 6.5 [3:44:14 PM] Computer Name: KAIRAT-PC [3:44:14 PM] Courrent User: kairat [3:44:14 PM] Is Admin: True [3:44:14 PM] Temp Folder: C:\Program Files\neevia.com\docConverterPro\temp\WVDC\ [3:44:14 PM] Default System Printer: \\ACLPRINTERS\AMUD [3:44:14 PM] Debug Mode enabled: False [3:44:14 PM] Dufiders: [3:44:14 PM] C:\Program Files\neevia.com\docConverterPro\DEF_FOLDERS\IN\ [3:44:14 PM] C:\Program Files\neevia.com\docConverterPro\DEF_FOLDERS\IN\ [3:44:14 PM] C:\Program Files\neevia.com\docConverterPro\DEF_FOLDERS\IN\				
Main log / Error log				
🛃 🗾 🖬				
Started Time	e: 3:44:20 PM Total threads: 0 Converted docs: 0	at		

The following screen appears:

#### Figure G-2: Neevia Document Converter Pro - Input Folder

Input Folder(s)	
Folder to scan	Output format
👰 C:\Program Files (x86)\neevia.com\docConverterPro\DEF_FOLDERS\IN\	TIFF
😌 Add Folder 🛛 🤶 Edit Settings	

# 

2. Double-click the file in the Folder to scan. In case there is more than one folder, double-click the folder whose Output format is TIFF.

The Edit Input Folder Settings window opens.

#### Figure G-3: Edit Input Folder Settings

Edit Input Folder Settings				
General Settings Scripting Document Parsers File Associations Advanced Settings				
File Type	Extension	Parser ID		
RAS - Ras file	.RAS	IMAGE/OCR		
RGBA - Rgba file	.RGBA	IMAGE/OCR		
RTF - Microsoft Rich Text Format		WORD		
RTF - Rich Text Format	.RTF	WORD		
SAM - Lotus WordPro Sam file	.SAM	WORDPRO		
SGI - Graphics file	.SGI	IMAGE/OCR		
SGL - StarWriter 4.0-5.0 Master Documents	.SGL	OPENOFFICE		
SLDASM - SolidWorks Assembly file	.SLDASM	SOLIDWORKS		
SLDDRW - SolidWorks Drawing file	.SLDDRW	SOLIDWORKS		
SLDPRT - SolidWorks Part file	.SLDPRT	SOLIDWORKS		
SMF - StarMath 2.0-5.0	.SMF	OPENOFFICE		
SNP - Microsoft SnapShot file		SNAPSHOT		
SRW - OpenOffice.org 1.0 Text Document Template	.SRW	OPENOFFICE		
STC - OpenOffice.org 1.0 Spreadsheet Template	.STC	OPENOFFICE		
STI - OpenOffice.org 1.0 Presentation Template	.sπ	OPENOFFICE		
STW - OpenOffice.org 1.0 HTML Template	.STW	OPENOFFICE		
SUN - Sun Rasterfile Graphics file	.SUN	IMAGE/OCR		
SVG - Compressed SVG	.SVGZ	ILLUSTRATOR		
SVG - Scalable Vector Graphics	.SVG	ILLUSTRATOR	-	
Add Edit Delete		Restore Defa	aults	
Import Export		🗸 Apply 🛛 🗙	Cancel	

3. Click the File Associations tab, scroll down for File Type RTF-Microsoft Rich Text Format, and then double-click it. The Edit File Association window opens.

Figure G-4: Edit File Association

Edit File Ass	ociation		×
File <u>T</u> ype:	RTF - Microsoft Rich Text Format		
<u>P</u> arser ID:	WORD	•	
	Open As: Word document	•	
	🖌 OK 🛛 🗶 Cancel		

- 4. In the Parser ID field, select WORD from the drop-down list.
- 5. Click OK.

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# Installation Guide



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