# Setting up a Sonus 1000/2000

- 1. Expand Media
- 2. Click on Media Profiles (1)
- 3. Click the Create Media Profile drop down and select FAX Codec Profile (2)

6						
Sonus		\varTheta Monitor	Tasks	Settings	Diagnostics	Syst
Q Search	Media Profiles					
Expand All   Collapse All   Reload	Create Media Profile 🐨 🗌 🕱	Total 2 Media Profile Rows				
Transformation	Voice Codec Profile			Descriptio	n	
Passthrough Untouched	FAX Codec Profile			Default G	711A	
Call Routing Table	▶ 🔯 🗋 G.711 µ-Law			Default G	711u	
🕨 🥬 Call Actions						
Signaling Groups						
Node Interfaces     Ports						
Logical Interfaces						
🕨 🥩 Bridge						
Relay Config						
Application Solution Module						
System						
Auth and Directory Services						
Protocols						
Local Registrars						
📁 Local / Pass-thru Auth Tables						
SIP Profiles						
SIP Server Tables						
Trunk Groups	-					
Contact Registrant Table	2					
Message Manipulation						
Call Admission Control						
🕨 🃁 CAS						
▶ 🥬 Security						
🔻 📁 Media						
Media System Confouration						
Media Profiles						
Default G711A						
Detaut G711u						

- 4. In the Description field, enter T38 (1)
- 5. Scroll down and click apply (2)

			vosce/faxProfile_details.aml&type=FaxProfil 🔯 Certifi	icate e
ate FAX Profile	_	_	July 15, 2015 13:06:2	0 0
	FAX	Codec	Configuration	
Description	T38 U	-	×	
Codec	T.38 Fax		Scroll down and select Apply	
Maximum Rate	144 3	✔ b/s	2.2.2	
Signaling Packet Redundancy	3	[0_7]		
Payload Packet Redundancy	0	[0.3]		
Error Correction Mode	Enabled	~		
Training Confirmation Procedure	Send Over N	letwork	$\checkmark$	
Fallback to Passthrough	Enabled	~		1 I
Super G3 to G3 Fallback	Disabled	~	2	

- 6. Expand Media then expand Media List
- 7. Select Default Media List (1)
- 8. Click the > arrow to expand the Default Media List (2)
- 9. Highlight Default G711A (3)
- 10. Click Remove (4)



- 11. Click Add/Edit (1)
- 12. Check Default G711u (2)
- 13. Check T38 (3)
- 14. Click Ok (4)

Default Medi	a List				
Description	Default Media List				
Media Profiles List	Default G711u	Co Acc Rec	nac Alena Alena		
Crypto Profile ID Media DSCP	[None [46	* (0.63	Select Media	Profiles	
RTCP Mode Dead Call Detection	RTCP Disabled	~	Media Profiles	2 selected	
Silence Suppression	Enabled	~	2	Filter: Bearth  Default G711u Default G711A T38	OK Carcel

15. Scroll down and click apply (1)

Description		
Default Medi	a List	SCROLLDOWN
Gain Co	ntrol	Digit Relay
Receive Gain 0 ransmit Gain 0	[-14+6] dB [-14+6] dB	Digit (DTMF) Relay Type RFC 2833 V Digit Relay Payload Type 101 [96.127]
	Passthro	ugh/Tone Detection
lodem Passthrough	Enabled 🗸	
Fax Passthrough	Enabled 🗸	
NG Tone Detection	Disabled V	

- 16. Expand System and select System Timing (1)
- 17. Change Clock Source to Network (2)
- 18. Click Apply (3)



- 19. Expand SIP and select Default SIP Server (1)
- 20. Click the Create SIP Server dropdown and select IP/FQDN (2)

Sonus		O Monitor
Q Search	Default SIP Server	
Expand All   Collapse All   Reload	Create SIP Server V	Total 0 SIP Server Rows
Transformation     Passthrough Untouched     Call Routing Table	IP/FQDN In 2	Se
Default Route Table      Call Actions		
signaling Groups		
Node Interfaces     Ports		
Logical Interfaces		
🕨 🥩 Bridge		
Relay Config		
Application Solution Module		
V System		
Node-Level Settings		
COE		
System Timing		
System Companding Law		
Licensing		
Software Management		
Auth and Directory Services		
Protocols		
🔻 🚧 SIP		
Local Registrars		
Local / Pass-thru Auth Tables		
SIP Profiles		
V SIP Server Tables		

## 21. In the Host field, enter the IP Address of the DocTransport (1)

e SIP Server Entry				July 15,	2015 13:10:02
Serve	er Host		Transport		
Row ID 1		Monitor	None	~	
erver Lookup IP/FQDN	•			_	
Priority 1	Ento	er IP of DocTra	nsport		
Host 10.64.1(3.9	S × FQDN or	IP			
Port 5060	* [1024.65535]				
Protocol UDP	<b>v</b> .				
	Remote Authorization	and Contacts			
emote Authorization Table	None	~			
	[av				

#### THIS SECTION ONLY FOR MULTILE DOCTRANSPORTS

- 21a. Click the Create SIP Server Dropdown and select IP/FQDN
- 21b. Change Priority to 2 (1)
- 21c. In the Host field, enter the IP address of the next DocTransport (2)
- 21d. Scroll down and click apply

ate SIP Server Entry	July 15, 2015 13:11:1
Server Host	Transport
Row ID 2 Server Lookup IP/FQDN Priority 2 Host 10.64.113.95 Port 5060 * [1024.65535] Protocol UDP *	Monitor None
Remote Authorization and Con	ntacts

- 22. Click Signaling Groups (1)
- 23. Click the Create Signaling Group dropdown (2)
- 24. Select SIP Signaling Group (3)



- 25. In the Description field, enter RightFax (1)
- 26. Make sure Media List ID is set to Default Media List (2)

te SIP Sign	aling Group			July 15	, 2015 13:11:59
Description	RightFax Enabled		×		
SI	P Channels and Routing				
Action Set Table Call Routing Table No. of Channels SIP Profile SIP Mode	None Default Route Table 60 * (1-960) Default SIP Profile Basic Call	> > >	Audio/Fax Stream Proxy Mode Audio/Fax Stream DSP Mode Video/Application Stream Proxy Mode Media List ID	Enabled V Enabled V Disabled 2	~
Agent Type SIP Server Table Load Balancing	Back-to-Back User Agent Default SIP Server Round Robin	>>>	Play Ringback Tone Table Early 183 Music on Hold	Auto Default Tone Table Disable Disabled	> > > > >
Channel Hunting	Most Idle	~			

## 27. Under Federated IP/FQDN, click the green + (1)

1 ×	Listen P Total 2 S	<b>'orts</b> IP Listen Port Row	a - 1	1 Fi	ederated IP/FQDN 0 SIP Federated IP Rows	
	Listen P	orts		1 Fi	ederated IP/FQDN	
_			_	Signaling DSCP	40 * [063]	
QoE Reporting	Disabled		~	Signaling/Media Source IP	Auto	~
Response Timer	255	[180750] sec		NAT Traversal	None	~
No Channel Available Override	34: No Circu	it/Channel Available	e 🗸		SIP IP Details	
Outbound Proxy Port	5060	[1024.65535]		Pass-thru Peer SIP Response Code	Enable	~
Proxy	IP/FQDN		·	Q.850 To SIP Override Table	Default (RFC4497)	~
Request	Disable			SIP To Q.850 Override Table	Default (RFC4497)	~

28. In the IP Address/FQDN field, enter the IP address of the DocTransport (1)29. Click OK (2)

IP add	ress of DocTran	sport
IP Address/FQDN	10.64.113.94	×
Federated IP Netmask	255.255.255.255	-

Note: You can add more DocTransports here by clicking the green + button again

	Listen Ports				erated IP/FQDN	
e l d	-	Total 2 5	SIP Listen Port Rows	4-1-1	Total 0 5	IIP Federated IP Rows
	Port	Protocol	TLS Profile ID		IP/FQDN	Netmask
	5060	UDP	N/A	1	] 10.64.113.94	255.255.255.255
0	5060	TCP	N/A	/ 🗆	] 10.64.113.95	255.255.255
essag	e Manipu	ulation Disal	bled V			

31. Select the Create Signaling Group dropdown again and click ISDN Signaling Group (1)

Sonus		
Q Search	<b>^</b>	Signaling Group Table
Expand All   Collapse All   Reload		Create Signaling Group 🔻 📘
Transformation     Passthrough Untouched		1 ISDN Signaling Goup n
<ul> <li>Call Routing Table</li> <li>Default Route Table</li> </ul>		CAS Signaling Group
Call Actions		

- 32. In the Description field enter PRI in most cases (1)
- 33. Verify the Switch Variant often times NI2 (2)
- 34. For the Call Routing Table dropdown, select Default Route Table (3)
- 35. Verify the T1 as fractional/non-fractional (4)

Description PR			×		
Admin State Ena	bled V		Scroll	lown and hit (	ж
	Channels and Routing		Port a	nd Protocol	
Channel Hu	nting Most Idle	~	Port Name	(T1) Port 7:1	~
Dire	Bidirectional	~	Fractional	No 4	~
Tone	Table Default Tone Table Ringbock *	~	Switch Variant	NI2 2	~
Action Set	Table None	N ~	ISDN Side	User	~
Call Routing	Table Default Route Table	3 .	Play Ringback	Auto	~
No Channel Ava	ilable 34: No Circuit/Chann	el Available 🗸	Service Msg Capability	Enabled	~
Play Inband Me	isage No	~	Stop Far-End T310	Disabled	~
Post-Disco Call Setup Resp	onse 255 [180.75	50) secs	Indicated Channel	Exclusive	~
			Cwitch Con	the Development of	

- 36. Select Call Routing Table (1)
- 37. Click the green + to create routing table (2)



- 38. In the Description field, enter From PSTN (1)
- 39. Click OK (2)

Create Call Routing Table - Windows Internet Explorer https://10.64.113.97/cgi/phol.II/config.php?cfg=/ujews/unice/callRouteTable		
eate Call Routing Table		July 15, 2015 12:47:48
Row ID Description	3 From PSTN	×
	5	2 ок
<		

- 40. Select From PSTN (1)
- 41. Click the green + (2)



- 42. In the Description field, enter To RightFax (1)43. Under Destination Signaling Group click Add/Edit (2)

ate Call Routing Entry		J.
	Route Details	
Roy	v ID 1	
Descrip	tion To RightFax	×
Admin S	tate Enabled V	
Route Price	arity 1 🗸	
Call Pric	ority Normal V	
Number/Name Transformation T	able Passthrough Untouched V	
	Destination Information	
Destination Type	Destination Information	
Destination Type Message Translation Table	Normal V	
Destination Type Message Translation Table Cause Code Reroutes	Normal     V       None     V       None     V	
Destination Type Message Translation Table Cause Code Reroutes Cancel Others upon Forwarding	Normal     V       None     V       None     V       Disabled     V	
Destination Type Message Translation Table Cause Code Reroutes Cancel Others upon Forwarding Fork Call	Normal     V       None     V       None     V       Disabled     V       Not Licensed	
Destination Type Message Translation Table Cause Code Reroutes Cancel Others upon Forwarding Fork Call	Normal     V       None     V       None     V       Disabled     V       Not Licensed     Uty	2
Destination Type Message Translation Table Cause Code Reroutes Cancel Others upon Forwarding Fork Call Destination Signaling Groups	Normal        None        None        Disabled        Not Licensed     Up	p wn

- 44. Select (SIP) RightFax (1) 45. Click OK (2)

		g Groups	Select Signalin
	•	1 selected	Signaling Groups
		Filter: Search	_
Cancel	ок	(SIP) RightFax	0
2	2	(ISD) PRI	
2	0×	(SIP) RightFax	0

- 46. Make sure the Media List is set to Default Media List (1)
- 47. Click OK (2)

Destination Signaling Group	25	Down Add/Edit Remove	
	Media	Quality of	Service
Audio/Fax Stream Mode	DSP	Quality Metrics Number of Calls	10 [1.100]
Video/Application Stream Mode	Disabled	Quality Metrics Time Before	10 [1-60]
Media Transcoding	Not Licensed	Min. ASR Threshold	min. 0 % /0.2001
Media List	Default Media List	Enable Max. R/T Delay	Enabled V
		Max. R/T Delay	65535 ms [165535]
		Enable Max. Jitter	Enabled 🗸
		Max. Jitter	3000 ms [1_3000]
		-	

- 48. Select Call Routing Table (1)
- 49. Click the green + to create routing entry (2)



- 50. In the description field, enter From RightFax (1)
- 51. Click OK (2)

Create Call Routing Table - Windows Internet E	oplorer O Catificate and
Create Call Routing Table	July 15, 2015 12:46:05
Row ID 2 Description From RightFax	
	2 🛒

### 52. Select From RightFax (1)

53. Click the green + (2)



- 54. In the Destination field, enter To PSTN (1)
- 55. In Destination Signaling Group, click Add/Edit (2)

te can routing entry				
		Ro	ute Details	
Roy	v ID 2	0		
Descrip	tion To PST	IN		
Admin S	tate Enable	ed 🗸		
Route Price	ority 1	~		
Call Pric	ority Norm	al V		
umber/Name Transformation T	able Passth	rough Untouched	~	
		Destinat	ion Informa	tion
		Destinat	ion informa	uon
Destination Type	Normal	V	ion informa	uon
Destination Type Message Translation Table	Normal	V		
Destination Type Message Translation Table Cause Code Reroutes	Normal None None	V	~ ~	
Destination Type Message Translation Table Cause Code Reroutes ancel Others upon Forwarding	Normal None None Disabled	✓		
Destination Type Message Translation Table Cause Code Reroutes ancel Others upon Forwarding Fork Call	Normal None None Disabled Not Licensed		~ ~	
Destination Type Message Translation Table Cause Code Reroutes ancel Others upon Forwarding Fork Call	Normal None None Disabled Not Licensed		~ ~	Up

Signaling Groups	1 selected	0
	Filter: Search_	
	(SIP) RightFax	OK Can
-	(ISDN) PRI	2
		14
Groups		V = -

- 58. Make sure media list is set to Default Media List (1)
- 59. Click OK (2)

	Media	Quality of	Service	
Audio/Fax Stream Mode	DSP	Quality Metrics Number of Calls	10	[1100]
Video/Application Stream	Disabled	Quality Metrics Time Before Retry	10 min.	][1-60]
Media List	Default Media List	Min. ASR Threshold	0	] % [0100]
		Enable Max. R/T Delay	Enabled 🗸	]
		Max. R/T Delay	65535	ms
		Fachia May Vittar	[165535]	1
		Enable Max. Jitter	Enabled V	]
		Max. Jitter	[13000]	ms
			2	

- 60. Select signaling group RightFax (1)
- 61. Select From RightFax from the dropdown (2)
- 62. Scroll down and click OK (3)

6								
Sonus			O Monitor	Tasks	Settings D	liagnostics	System	
9 Search	Signaling Group Table					_	_	
Expand All   Collapse All   Reload	🛷   🖺   🥝   Create Signaling G	Group 🔻   🗶	Total 2 Signaling Group	p Rows				
▼ 🌽 Transformation	Type D	escription	Admin Stat	te	Service State	us		Disp
Passthrough Untouched	T 🗋 SIP F	Rightfax	₩/		Up			<u>Cov</u>
Call Routing Table     Default Route Table								
<ul> <li>Call Actions</li> <li>Action Configuration</li> <li>Action Sets</li> </ul>	Description Rightfax Admin State Enabled	~			s	croll down a	3 and click OK	
Signaling Groups (SIP),Rightfax (ISD)./PRI	Service Status Up	hannels and Routing						╞
V Docts					Media In	formation		
T1) Port 7:1	Action Set Tabl Call Routing Tabl No. of Channel	le None From RightFax Is 60 * /13	✓ 2	Auc	dio/Fax Stream Proxy Mode udio/Fax Stream DSP Mode	Enabled N	•	Π
Logical Interfaces	SIP Profil	le Default SIP Profile	~	Video/Appl	ication Stream Proxy Mode	Disabled		
Ethernet 1 IP	SIP Mod	le Basic Call	~		Media List ID	T38 Fax		4
Ethernet 2 IP	Agent Typ	Back-to-Back User Agen	nt 🗸		Play Ringback	Auto	`	-
Loopback 1		-			Tone Table	Default Tone Tal	ble N	/

- 63. Select signaling group PRI (1)64. Select From PSTN from the dropdown (2)
- 65. Scroll down and click OK (3)

				Monitor	Tasks Settin	ngs Diagr	ostic
Q. Search	Signaling	Group Table	Group 💌 I 😾	Total 2 Signaling Group	Rous		
Expand All   Collapse All   Reload		Туре	Description	Admin State		Service Status	
Passthrough Untouched		SIP	Rightfax	8/		Up	
Call Routing Table	- 00	ISDN	PRI	₩,		Down	
Signaling Groups (SIP) Rightfax	Admir	n State Enabled	~		Scroll dowr	n and click OK	
(ISDN) PRI							
Node Inter (ISDN) PRI		Cł	annels and Routing		Port a	nd Protocol	
Node Inter Ports (T1) Port 7-1 Port ASM 1		Ch Channel Hunting	Most Idle	~	Port a	(T1) Port 7:1	~
Vode Inter (ISDN) PRI Ports (ISDN) PRI (ISDN) PRI Port ASM 1 Port Ethernet 1 Port Ethernet 2		Ct Channel Hunting Direction	Most Idle Bidirectional	>	Port a Port Name Fractional	(T1) Port 7:1	~ ~
Node Inter (T1) Ports (T1) Port 7:1 Port ASM 1 Port Ethernet 1 Port Ethernet 2 Logical Interfaces		Channel Hunting Direction Tone Table	Most Idle Bidirectional Default Tone Table Ringbock *	>>>	Port a Port Name Fractional Switch Variant	(T1) Port 7:1 * No NI2	~ ~ ~ ~
ISDN) PRI Node Inter (T1) Port 7:1 Port ASM 1 Port Ethernet 1 Port Ethernet 2 Logical Interfaces Ethernet 1 IP		Channel Hunting Direction Tone Table Action Set Table	Most Idle Bidirectional Default Tone Table Ringback * None	>>>	Port an Port Name Fractional Switch Variant ISDN Side	(T1) Port 7:1 * No NI2 User	, , , , , ,

66. Test inbound and outbound faxes.