

# Dialogic<sup>®</sup> Brooktrout<sup>®</sup> SR140 Fax Software with Mitel 3300 MXe Controller

Installation and Configuration Integration Note

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# 1. Scope

This document is intended as a general guide for configuring a basic installation of the Mitel 3300 MXe Gateway for use with Dialogic<sup>®</sup> Brooktrout<sup>®</sup> SR140 Fax over IP (FoIP) software platform. The interoperability includes SIP call control and T.38/T.30 media.

This document is not intended to be comprehensive and thus does not replace the manufacturer's detailed configuration documentation. Users of this document should already have a general knowledge of how to install and configure the Mitel 3300 MXe Controller.

The sample configuration shown and/or referred in the subsequent sections was used for lab validation testing by Dialogic. Therefore, it is possible and even likely that the example configuration will not match the exact configuration and versions that would be present in a deployed environment. However, the sample configuration does provide a possible starting point to work with the equipment vendor for configuring your device. Please consult the appropriate manufacturer's documentation for details on setting up your specific end user configuration.

For ease of reference, the Dialogic<sup>®</sup> Brooktrout<sup>®</sup> SR140 Fax Software and Dialogic<sup>®</sup> Brooktrout<sup>®</sup> TR1034 Fax Boards will sometimes be denoted herein, respectively, as SR140 and TR1034. All references to the SDK herein refer to the Dialogic<sup>®</sup> Brooktrout<sup>®</sup> Fax Products SDK. The Mitel 3300 MXe will be denoted herein as Mitel 3300 or 3300 MXe, or some other form thereof.

## 2. Configuration Details

The following systems were used for the sample configuration described in the document.

#### 2.1 Mitel 3300 MXe Controller Gateway

Vendor	Mitel
Model	3300 MXe
Software Version	9.0.3.15
PSTN Device	Dialogic <sup>®</sup> Brooktrout <sup>®</sup> TR1034 Fax Board
Protocol from Gateway to PSTN	T1 PRI ISDN
IP Device	Dialogic <sup>®</sup> Brooktrout <sup>®</sup> SR140
Additional Notes	Same firmware is used on 3300 CXi, CX, and MXe devices. Softswitch (call manager) option also available for overall network solution. T.38 licenses must be loaded. DSP module must be present.

# 2.2 Dialogic<sup>®</sup> Brooktrout<sup>®</sup> SR140 Fax Software

Vendor	Dialogic
Model	Dialogic <sup>®</sup> Brooktrout <sup>®</sup> SR140 Fax Software
Software Version	Dialogic <sup>®</sup> Brooktrout <sup>®</sup> SDK 6.1.1
Protocol to Gateway	SIP
callctrl.cfg file	Default values

# 2.3 Dialogic<sup>®</sup> Brooktrout<sup>®</sup> TR1034 Fax Board

Vendor	Dialogic
PSTN Device	Dialogic <sup>®</sup> Brooktrout <sup>®</sup> TR1034 BRI Fax Board
Software Version	Dialogic <sup>®</sup> Brooktrout <sup>®</sup> SDK 6.1.1
Protocol to PSTN Device	BRI ISDN
callctrl.cfg file	<i>Default values with European Community as country code.</i>

#### 2.4 Network System Configuration

The diagram below details the sample configuration used in connection with this document.



Notes:

- SR140 Fax Server = Fax Server including Dialogic<sup>®</sup> Brooktrout<sup>®</sup> SR140 Fax Software and third party fax application.
- TR1034 Fax Server = Fax Server including Dialogic<sup>®</sup> Brooktrout<sup>®</sup> TR1034 Fax Board and third party fax application.

## 3. Prerequisites

For T.38, DSP II module, T.38 licenses and SIP Trunk licenses must be installed and enabled on the Mitel 3300 MXe.

#### 4. Summary of Limitations

The Mitel 3300 MXe DSP module used in testing only supported v.17 14400 bps fax transfer on T.38.

By default, ECM (error correction mode) is turned off on the Mitel. ECM was enabled in one of the test configurations to improve the fax quality on the test network.

## 5. Mitel 3300 MXe Gateway Fax Configuration

SIP trunking was used for the interconnection. See IP Endpoint Configuration section for details.

#### 5.1 Installing and Configuring the T.38 Licensing and Hardware Resources

The following guidance was used when installing and configuring the Mitel 3300 for testing:

There are a number of limits that apply with T.38 faxing which include: software license limits, hardware limits and practical limits. A brief description of each is noted below:

- **Software license limits:** 64 sessions. Software license limits is the total number of T.38 licenses that can be entered in the License and Options select form. Licenses can be purchased in groups of 4 up to a maximum of 64. A reboot is required to enable new licenses.
- Hardware limits: T.38 Faxing requires the use of a DSP II card. Please note that available resources are determined if the license limits can be achieved. For example, if there are insufficient DSP resources for T.38 faxing, the operational limit may be reached before the license limit. Because DSP resources are allocated at 3300 initialization based on license numbers, not traffic requirements, it is possible to allocate all DSP resources and have nothing left for telecom tone receivers and generators, so calls cannot be made on the system. Although a maximum of 64 T.38 sessions can be provisioned, this is not a recommended configuration.
- **Practical limits:** 16 sessions. The practical limits are determined by the level of traffic that the system will handle at the same time as the T.38 sessions. There is a direct trade-off between traffic handling and FAX T.38 sessions. The practical limit of 16 is derived from the requirement to provide both T.38 FAX and support the full range of IP-Phone users with typical office traffic. If the unit is being used as a FAX gateway, WITHOUT any type of phones (i.e.: IP phones, SIP phones, any type of telephony Trunking or connected to voice/data applications) then it should be possible to increase this limit up to a maximum 32 T.38 sessions. This is assuming that the T.38 sessions are busy 100% of the time and there is sufficient traffic demand to keep these channels fully used.

T.38 licenses are referred to as "FAX over IP (T.38) Licenses". If the number of T.38 licenses programmed exceeds the available DSP resources, a DSP alarm is raised and a maintenance log is generated.

The number of T.38 (8) and SIP trunking licenses (4) used in the test configuration is shown in the following screenshot titled: "License and Option Selection".

License and Option Selection						
Online Licensing with the Application Management Center						
Application Record ID:	86969904					
Purchased Options						
IP User Licenses	460					
ACD Agent Licenses:	150					
IP Device Licenses:	250					
Mailbox Licenses:	18					
Digital Link Licenses:	5					
Compression Licenses:	0					
FAX Over IP (T.38) Licenses:	8					
SIP Trunk Licenses:	4					
Analog Line Licenses:	32					
SIP User Licenses:	0					
XNET Networking:	No					
IP Networking:	Yes					
Voice Mail Networking:	No					
Advanced Voice Mail:	No					
Voice Mail Hospitality/PMS:	No					
Lenanting:	NO					
MLPP:	NO					
Remote Management:	N0 0000000BBC20					
nardware identifiër:	VUUUUU2BBC38					
Password:						

## 5.2 Fax Configuration

This Fax Configuration form allows you to define the settings for FAX communication over the IP network.

Selection: System Administration								Change
System Options	lnter-Zo	ne Fax Profile						-
Class of Service Options A Class of Restriction Group Controller Registry Configu Independent Account Code	Maximum F High Speed Low Speed Error Correc Override No	ax Rate: Redundancy: Redundancy: tion Mode (ECM): on-Standard Facilities (N	SF)		14400 (V.17 3 8 Disabled Disabled	, 14400bps)		_
Station Service Assignmen     SMDR Options Assignmer     SMDR Options Assignmer     SMDR Options Assignmer     Social Services Configurati     System Speed Call Assign	Previous	Page 1 of 7 🌑 🛛 Hext ne Fax Profiles	G	o to: Change C	▼ Change Page	value:	AII	Go 🔺 Clear
Traffic Options Assignmen	Profile	Maximum Fax Rate	High Speed Redundancy	Low Speed Redundancy	Error Correction Mode	NSF Override	NSF Vendor Code Value	NSF Coun Code Value
P Automatic Route Selection (AR	<b>1</b>	-	-	-	-	-	-	- II
Automatic Call Distribution (AC	2	14400 (V.17, 14400bps)	3	8	Enabled	Disabled		1.0
🗈 🗀 Call Handling 📃 🚽	<b>D</b> 3	14400 (V.17, 14400bps)	0	3	Enabled	Disabled		
	<b>E</b> 4							
	₽ <u></u> 5 ₽}6							
About System Administration	<u> </u>							▶

The Inter-Zone Fax Profile defines the FAX settings between the different zones in the network. There is only one Inter-Zone Fax Profile and it applies to all inter-zone fax communication. It defaults to V.29, 7200bps.

The Intra-Zone Fax Profile defines the fax settings within each zone in the network.

- Profile 1 defines the settings for G.711 pass through communication.
- Profiles 2 to 64 define the settings for fax relay (T.38) fax communication.
- All zones default to G.711 pass through communication (Profile 1).

Two new Profiles were created for T.38 fax, the Inter-Zone Fax Profile and Intra-Zone Fax Profile, and are shown in the following set of screenshots.

For the Inter-Zone Fax Profile, select 14,400 (v.17, 14400bps) maximum Fax Rate and disable Error Correction Mode (ECM). Save profile.

Inter-Zone Fax Profile	
Maximum Fax Rate: High Speed Redundancy: Low Speed Redundancy:	14400 (V.17, 14400bps) V 0 V 3 V
Error Correction Mode (ECM):	<ul> <li>O Disabled</li> <li>○ Enabled</li> </ul>
Override Non-Standard Facilities (NSF) Vendor Code Value: Country Code Value:	0 [0 - 65535] 0 [0 - 65535]
Label:	Inter-zone



EInter-Z	one Fax Profile							
Maximum High Spee Low Spee Error Corr Override	n Fax Rate: ed Redundancy: ed Redundancy: rection Mode (ECM): Non-Standard Facilities (	(NSF)			14400 (V.17, 1 0 3 Disabled Disabled	4400bps)		
Label:					Inter-zone			
Previous	Page 1 of 7 🌑 🖪	ext	G	o to:		value		Go
				Change	Change Page	Cł	nange All	Clear
BIntra-Z	one Fax Profiles							
Profile	Maximum Fax Rate	High Speed Redundancy	Low Speed Redundancy	Error Correction Mode	NSF Override	NSF Vendor Code Value	NSF Country Code Value	Label
1	-	-	-	-	-	-	-	G.711
2	14400 (V.17, 14400bps)	0	3	Disabled	Disabled			T.38
3								
4								
5								
6								
7								
8								
9								
10								

For the Intra-Zone Fax Profile, select 14,400 (v.17, 14400bps) maximum Fax Rate. ECM (Error Correction Mode) is disabled by default. Save profile.

Intra-Zone Fax Profiles				
Profile: Maximum Fax Rate: High Speed Redundancy: Low Speed Redundancy:	2 14400 (V.17, 14400bps) V 0 V 3 V			
Error Correction Mode:	<ul> <li>O Enabled</li> </ul>			
Override Non-Standard Facilities (N	SF)			
Vendor Code Value:	0 [0 - 65535]			
Country Code Value:	0 [0 - 65535]			
Label:	T.38			
		E	Save	Cancel

Note: the equivalent parameter for the High Speed Redundancy in the Mitel configuration is the UDPTL\_redundancy\_depth\_image parameter in the Brooktrout configuration, and for the Low Speed Redundancy in the Mitel configuration is the UDPTL\_redundancy\_depth\_control parameter in the Brooktrout configuration.

## 5.3 Zone Assignment

By default, all zones are set to Intra-Zone Fax Profile 1. For the test configuration, the Intra-Zone Fax Profile was set to 2 and profile was saved.

Jone Assignment		
Zone ID: Intra-zone Compression:	1 No	◯ Yes
Intra-zone Fax Profile:	1	
Label:		





## 6. Deployment Details

#### 6.1 Network Addresses

Device #	Device Description	Device IP Address
1	Mitel 3300 MXe	10.1.0.2
2	Dialogic <sup>®</sup> Brooktrout <sup>®</sup> SR140 Fax Software	10.1.0.9

# 7. IP Endpoint Configuration

The screenshot below shows the Network Element Assignment for the Mitel 3300.

Network Element Assignment	
Name:	fax
lype:	Other 💌
FQDN or IP Address:	10.1.0.9
Local:	False
Zone:	2
Zuite.	12
SIP Peer:	V
SIP Peer Specific	
SIP Peer Transport:	UDP 🗸
SIP Peer Port:	5060
External SIP Proxy FQDN or IP Address:	
External SIP Proxy Transport:	~
External SIP Proxy Port:	0
SIP Registrar FQDN or IP Address:	
SIP Registrar Transport:	✓
SIP Registrar Port:	0
-	
	Save Cancel

For the test configuration with the Dialogic<sup>®</sup> Brooktrout<sup>®</sup> SR140 Fax Server endpoint, the following values were used:

- Element Name: "fax"
- Type: Other
- IP address: 10.1.0.9
- SIP Peer: checked
- SIP Peer Transport: UDP
- SIP Peer Port: 5060

Configuration was saved.

Selection:				Add	Change Delete	Start Sharing	Since
				Huu	change belete	Start Sharing	Sync
📰 Multiline Set Group Assignmer		work Flomont Assign	mont				
Multiline Set Key Assignment		WORK LIEIHEIIT ASSIGN	mem				
Multiline Set Status Assignme		Name↓	Туре	FQDN or IP Address	Data Sharing	Version	Zone
Network Element Assignmen		3300 1 (Local)	3300 ICP	10.1.0.2		9.0.3.15	1
E Network Services Unit Configu		2200.2	2200108	10 1 1 2	VEQ	0.0.2.15	1
	드린	5500_2	5500101	10.1.1.2	123	3.0.3.13	
	토	fax1	Other	10.1.0.9	NO		1
Detwork Topology Assignmer		fax2	Other	10.1.0.10	NO		1
🖹 Networked VM Servers							
Online Services Configuration							
ONS/OPS Circuit Assignment							
🗐 Page Group Assignment							
📄 Path Assignment	Networ	k Flement Assignme	nf				
Path Interflow Dialing List Assi							
Peripheral/DSU Unit Configura	Namo					av1	
El Personal Speed Call Assignm	Type:					Uner	
	FQDN o	r IP Address:				10.1.0.9	
	Data Sh	naring:				NO	
(H) MITEL 3300 ICP	Version	:				raise	
About System Administration	Zone:					1	-

The IP Endpoint Configuration is shown in the following screenshot:

In the screenshot below, the test configuration is shown as Trunk Service Number 25.

Selection:				Change	Chap as Dag	Chang	
Air forms (aiphabetical)					Change Page		
🔤 Trunk Circuit Descriptor Assign	Previous Page 3	of 15 🎱 Nex	d .	Go to:	1	value:	Go
🗐 Trunk Circuit Descriptor Assigr							
	Trunk Service /	Assignment	01 (	01 (			
Trunk Circuit Descriptor Assign	Trunk Service Number	Release Link Trunk	Class of Service	Class of Restriction	Baud Rate	Intercept Number	l runk Label
Trunk Circuit Descriptor Assign	21	No	1	1	300	1	
Trunk Circuit Descriptor Assign	22	No	1	1	300	1	
Trunk Group Assignment	En 23	No	1	1	300	1	
Trunk Service Assignment	En 24	No	1	1	300	1	
Unit Configuration Display		No	25		0600	1	iav
CRI/Number Translation		NU NU	20	4	9000		idA
User Authorization Profiles	₽ <sup>26</sup>	No	1	1	300	1	
User Configuration	27	No	1	1	300	1	-
Voice Mail Options Assignmen	28	No	1	1	300	1	
🗉 🗐 Voice Mail Port Assignment	Ehan	Nia	4	4	200	4	
···· 🗐 Voice Mail Port Capacity	Trunk Service Assi	anment					4
E Voice Mail Prompt Language A	TTUIK Service Assi	giinen					
Voice Mailbox Configuration	<b>T</b> 1 <b>C</b> 1 <b>N</b>					05	
Voice Quality Configuration	Release Link Trunk			25 No			
- El Voice Quality Statistice	Class of Service:			25			
	Class of Restriction			4			
	Baud Rate:					9600	-
(H) MITEL 3300 ICP	Non-dial In Trunks	Answer Point - Da	ay:				
About System Administration	Non-dial In Trunks	Answer Point - Ni	ght 1:				
							-

This full SIP Peer Profile is shown below.

🖉 Webpage Dialog			×
SIP Peer Profile			4
SIP Peer Profile Label:	( AX		
Network Element:	ax1 💌		
Local Account Information			
Registration User Name:			
Address Type:	C FQDN	⊙ IP Addre	
		10.1.0	0.2
Outbound Proxy Server:			
Calling Line ID			
Default CPN:			
Restriction:			
Delision			
Trunk Service:	25		_
Interconnect Restriction:	1		
Maximum Simultaneous Calls:	4		
Session Timer:	0		
Zone:	1		
SMDR Tag:	0		
Enable Mitel Proprietary SDP		© Y	
Use P-Asserted Identity Header:	© No	OY	es es
Use Restricted Character Set For Authentication:	© No	OY	es
Disable Reliable Provisional Responses:	O No	ΘY	es
Use Alternate Destination Domain:	© No	OY	es
Ignore Incoming Loose Routing Indication:	( No	0.4	-
Suppress Use of SDP Inactive Media Streams:	© No	OY	-5
Enable Special Re-invite Collision Handling:	⊙ No	OY	es
Enable sending '+' for E.164 numbers:	© No	OY	es
Force sending SDP in initial Invite message:	© No ⊙ No	OY	es
Force Answer - send SDP in initial Invite:	© No ⊙ No	OY	35
Prevent the Use of IP Address 0.0.0.0 in SDP Messages:	© No	OY	es
Use P-Preferred Identity Header:	No	OY	es
Route Call Using To Header: Private SIP Truck:	© No ⊙ No	OY	es
Public Calling Party Number Passthrough:	© No ⊙ No	OY	es es
Use Diverting Party Number as Calling Party Number:	⊙ No	OY	es
Build Contact Using Request URI Address:		OY	es
Renegotiate SDP To Enforce Symmetric Codec:	© No	OY	es
Allow Peer To Use Multiple Active M-Lines:	© No	OY	95
Special handling of Offers in 2XX responses (INVITE):	© No	OY	es
Nether attending			
User Name:			
Password:			
Confirm Password:			
Authentication Option for Incoming Calls:	No Authentication	•	
			Save Cancel

For the test configuration, the SIP Peer profile was configured with the following options:

- Network Element: the selected SIP Peer Profile was associated with the previously created "fax1" Network Element.
- Address Type: used the IP addresses in SIP messages
- Outbound Proxy Server: selected the Network Element previously configured for the Outbound Proxy Server
- Calling Line ID: the default CPN was applied to all calls
- Trunk Service Assignment: entered the trunk service assignment previously configured, #25
- SMDR: If Call Detail Records are required for SIP Trunking, the SMDR Tag should be configured (by default there is no SMDR and this field is left blank)
- The remaining SIP Peer Profile policy options are similar to the screen capture above.

#### 8. Dialing Plan Overview

This section provides an overview of the dialing plan used for this document.

4 last digits place a call on SIP peer (Dialogic<sup>®</sup> Brooktrout<sup>®</sup> SR140 Fax Software) 8 + phone number places a call on T1 ISDN to the external PSTN network



# 9. Dialogic<sup>®</sup> Brooktrout<sup>®</sup> SR140 Fax Software Setup Notes

The Installation and Configuration Guides for SDK 5.2.x, SDK 6.0.x and SDK 6.1.x are available from the site:

http://www.dialogic.com/manuals/brooktrout/default.htm

For the sample test configuration, the SR140 was configured using the default values from SDK 6.1.1 and is shown below for reference.

I3I4\_trace=none I4I3\_trace=none api\_trace=none internal\_trace=none host\_module\_trace=none ip\_stack\_trace=none # Most of the time a path should be used for this file name. trace file= max trace files=1 max\_trace\_file\_size=10 [host\_module.1] module\_library=brktsip.dll enabled=true [host module.1/t38parameters] t38\_fax\_rate\_management=transferredTCF fax\_transport\_protocol=t38\_only t38\_fax\_udp\_ec=t38UDPRedundancy rtp\_ced\_enable=true t38\_max\_bit\_rate=14400 t38\_fax\_version=0 media\_renegotiate\_delay\_inbound=1000 media renegotiate delay outbound=-1 t38 fax fill bit removal=false t38 fax transcoding jbig=false t38\_fax\_transcoding\_mmr=false t38\_t30\_fastnotify=false t38\_type\_of\_service=0 t38\_UDPTL\_redundancy\_depth\_control=5 t38\_UDPTL\_redundancy\_depth\_image=2 [host\_module.1/rtp] rtp\_frame\_duration=20 rtp jitter buffer depth=100 rtp\_codec=pcmu pcma rtp silence control=inband rtp\_type\_of\_service=0 rtp\_voice\_frame\_replacement=0 [host\_module.1/parameters] sip\_max\_sessions=256 sip\_default\_gateway=0.0.0.0:0 sip\_proxy\_server1= sip\_proxy\_server2= sip\_proxy\_server3= sip\_proxy\_server4= sip registration server1= sip\_registration\_server1\_aor= sip registration\_server1\_username= sip\_registration\_server1\_password=

sip\_registration\_server1\_expires=3600 sip\_registration\_server2= sip\_registration\_server2\_aor= sip registration server2 username= sip registration server2 password= sip\_registration\_server2\_expires=3600 sip\_registration\_server3= sip\_registration\_server3\_aor= sip\_registration\_server3\_username= sip\_registration\_server3\_password= sip\_registration\_server3\_expires=3600 sip\_registration\_server4= sip\_registration\_server4\_aor= sip\_registration\_server4\_username= sip\_registration\_server4\_password= sip\_registration\_server4\_expires=3600 sip registration interval=60 sip\_Max-Forwards=70 sip\_From=Anonymous <sip:no\_from\_info@anonymous.invalid> sip\_Contact=0.0.0.0:0 sip username=sip\_session\_name=no\_session\_name sip\_session\_description= sip\_description\_URI= sip\_email= sip\_phone= sip Route= sip session timer session expires=0 sip session timer minse=-1 sip session timer refresh method=0 sip\_ip\_interface= sip\_ip\_interface\_port=5060 sip\_redirect\_as\_calling\_party=0 sip\_redirect\_as\_called\_party=0 [module.41] model=SR140 virtual=1 exists=1 vb firm=C:\fdtool-6.1.1\bin\bostvb.dll channels=6 [module.41/ethernet.1] ip\_interface={567CDC61-517C-4CD5-8F10-3DF5CB9CCDEC}:0 media\_port\_min=56000 media\_port\_max=57000 [module.41/host\_cc.1] host module=1 number\_of\_channels=6

No sip\_default\_gateway was filled in since the IP address of the gateway was specified in the dial string in the application. The following dial string was used for the outbound calls: 80113225374152@10.1.0.2. However, when the application does not allow specifying the gateway's IP address, make sure to fill in the IP address in the sip\_default\_gateway field. In our test scenario, this would be: sip\_default\_gateway=10.1.0.2:5060