



Dialogic® Brooktrout® SR140 Fax Software with Siemens HiPath 4000

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 **Siemens HiPath 4000** for use with Dialogic® Brooktrout® SR140 Fax over IP (FoIP) software platform. The interoperability includes SIP call control with T.38 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 know how to configure the **Siemens HiPath 4000**.

The sample configuration shown and/or referred to in the subsequent sections was used for lab validation testing. Therefore, it is quite possible that the sample configuration will not match an exact configuration or 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® Brooktrout® SR140 Fax Software will sometimes be denoted herein, as SR140. All references to the SDK herein refer to the Dialogic® Brooktrout® Fax Products SDK. **Siemens HiPath 4000** will sometimes be denoted herein as **HiPath 4000**.

2. Configuration Details

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

2.1 Siemens HiPath 4000

Vendor	Siemens
Model	HiPath 4000
Software Version	V6 R1.12.18
IP Device	Dialogic® Brooktrout® SR140 Fax Software
Protocol to SR140 Fax Software	SIP
Additional Notes	

2.2 Dialogic® Brooktrout® SR140 Fax Software

Vendor	Dialogic
Model	Dialogic® Brooktrout® SR140 Fax Software
Software Version	Tested with SDK 6.4.9*
Protocol to Gateway or Call Manager	SIP

* Tested by 3rd party, not using Dialogic interoperability test suite.

2.3 Network System Configuration

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

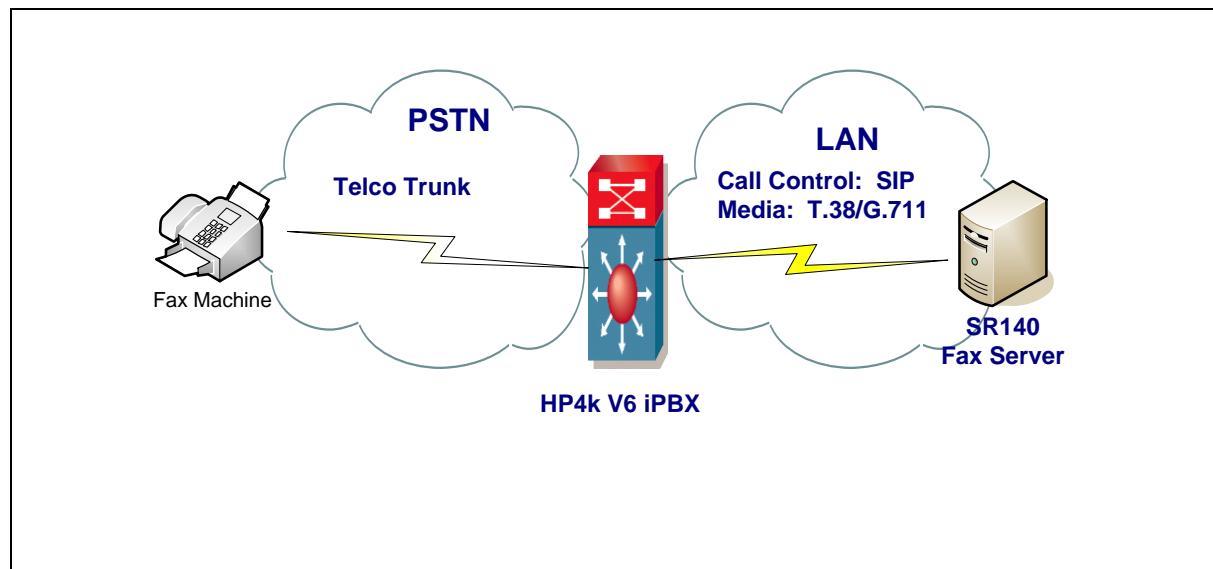


Diagram Notes:

- SR140 Fax Server represents the Fax Server including Dialogic® Brooktrout® SR140 Fax Software and third party fax application.

2.4 Network Addresses

The following table lists the IP addresses and their descriptions used in subsequent sections.

Device Make, Model, and Description	Device IP Address
HiPath 4000	10.195.1.242
SR140 Fax Server	167.95.1.24

3. Prerequisites

None.

4. Summary of Limitations

The HiPath 4000 configuration must disable Redundant Transmission of RFC2833 Tones when setting Codec Parameters. This is shown in section 5.2. Without this setting disabled, inbound calls to the HiPath 4000 will fail.

5. HiPath 4000 Configuration

RMX: V6 R1.12.18

LW: pzkti40.38.004-003

5.1./* Add STMI card GW */

```
ADD-BFDAT:FCTBLK=3,FUNCTION=HG3550,BRDBCHL=BCHL60&BCHL120;
CHANGE-BFDAT:CONFIG=CONT,FCTBLK=3,FUNCTION=HG3550,LINECNT=2,UNITS=3;
CHANGE-BFDAT:CONFIG=OK,FCTBLK=3,ANSW=YES;
```

<*dis-bfdat:3*>

```
| FCTBLK = 3      BRDBCHL : BCHL60 & BCHL120      STATUS=      OK      |
-----+
| 1. FUNCT : HG3550      2 LINES      UNITS 3      BCHLCNT 30      TOTAL BCHAN 60  |
-----+
```

```
ADD-BCSU:MTYPE=IPGW,LTG=1,LTU=5,SLOT=49,PARTNO="Q2324-X500",FCTID=1,FCTBLK=3,BCHL3550=60;
```

<*DIS-BCSU:TBL, ,5,49*>

LTG 1 LTU 5 SRCGRP 1 ALARMNO-LTU 0						
PEN	ASSIGNED	MODULE	FCT E W ARM	INSERTED	HW-	MODULE
	MODULE	TYPE	ID C Y NO	MODULE	STATE INFO	STATUS
49	Q2324-X500	STMI4	1 A 0	Q2324-X500	1 -11 -	READY
	IP ADDRESS :	10.195. 1.242		B-CHANNELS :	60	BCHLCNT : 50
	IP MODE :	IPV4		DHCP V4 :	NO	DHCP V6 : NO
	BLOCK NO :	3		PRERESERVED LINES	ASSIGNED :	NO
	1. FUNCT :	HG3550	2 LINES	B-CHANNELS :	60	BCHLCNT : 50

5.2./* STMI GW Parameters, with NO Redundant RFC Tone (REDRFCTN) */

```
ADD-CGWB:LTU=5,SLOT=49,SMODE=NORMAL,IPADR=10.195.1.242,NETMASK=255.255.255.0;
CHANGE-CGWB:MTYPE=CGW,LTU=5,SLOT=49,TYPE=GLOBIF,PATTERN=255,
DEFRT=10.195.1.1,BITRATE="100MBFD",TRPRSIP=12;
CHANGE-CGWB:MTYPE=CGW,LTU=5,SLOT=49,TYPE=ASC,UDPPRTLO=29100,UDPPRTHI=30099,
TOSPL="184",TOSSIGNL="104",T38FAX=YES,RFCFMOIP=YES,RFCDTMF=YES,REDRFCTN=NO,
PRIO=PRI01,CODEC=G711U,VAD=NO,RTP="20";
CHANGE-CGWB:MTYPE=CGW,LTU=5,SLOT=49,TYPE=ASC,PRIO=PRI02,CODEC=G729A,VAD=NO,
RTP="20";
CHANGE-CGWB:MTYPE=CGW,LTU=5,SLOT=49,TYPE=ASC,PRIO=PRI03,CODEC=G711A,VAD=NO,
RTP="20";
CHANGE-CGWB:MTYPE=CGW,LTU=5,SLOT=49,TYPE=MGNTDATA,MGNTIP=167.95.1.249,
MGNTPN=8000,BUSIP=167.95.1.249,BUSPN=443;
CHANGE-CGWB:MTYPE=CGW,LTU=5,SLOT=49,TYPE=DMCDATA,DMCCONN=45;
```

<*DIS-CGWB:5,49*>

```
| CGW BOARD DATA
-----+
| HG3550
-----+
| LTU = 5      SLOT = 49      SMODE = NORMAL      POOLNO: 0      |
-----+
```

GLOBAL DATA AND ETHERNET INTERFACE DATA - CONFIGURABLE VALUES:

```
IPADR      = 10 .195.1 .242      TCPP      =      (4060)
NETMASK    = 255.255.255.0      VLAN     = NO      (NO)
DEFRT      = 10 .195.1 .1      (0.0.0.0 = NOT CONFIGURED)
BITRATE    = 100MBFD (AUTONEG)      VLANID   = 0      (0)
PATTERN    = 255 (213)  ==> 255 for Ulaw (PCM24/USA)
TRPRSIP    = 12 (0)  ==> 12 SIP Channels, can expand to 60...
TRPRSIPQ   = 0 (0)
TRPRH323   = 0 (0)
TPRH323A   = 0 (0)
TLSP       = 4060 (4061)
```

ASC DATA - CONFIGURABLE VALUES:

```
-----
TOSPL    = 184   (184)    TOSSIGNAL = 104   (104)
UDPPRTLO = 29100 (29100)  UDPPRTHI = 30099 (30099)
T38FAX   = YES    (YES)   REDRFCTN = NO      (YES)   => if YES, NO Payload from FAX Server
RFCFMOIP = YES    (NO)    RFCDTMF  = YES    (YES)   => RFC Fax Modem Over IP = Yes

PRIO1 : CODEC = G711U   VAD = NO     RTP-SIZE = 20
PRIO2 : CODEC = G729A   VAD = NO     RTP-SIZE = 20
PRIO3 : CODEC = G711A   VAD = NO     RTP-SIZE = 20
.....
MANAGEMENT STATION AND BACK-UP SERVER
-----
MGNTIP   = 167.95.1.249 (0.0.0.0)  => Assistant IP Address for Card Config. Backup
BUSIP    = 167.95.1.249 (0.0.0.0)
```

DMC DATA

```
-----
DMCCONN  = 45 (0)
```

LEGK DATA

```
-----
GWNO     = (0)
GWDIRNO =
REGEXTGK = NO (NO)
```

5.3. /* Add Trunk Group */

ADD-BUEND:TGRP=95,NAME="FAX SERVER" ",NO=12;

```
<dis-buend:95;
+----- FORMAT = L -----
| TGRP NUMBER : 95   TGRP NAME   : FAX SERVER           MAXIMUM NO.   : 12 |
|                   CHARCON   : NEUTRAL                  |                   |
| SUBGROUP NO.: 10   DEVICE TYPE : HG3550CO          TRACENO       : 0  |
| SEARCH MODE : CIRCULAR                         ACD THRESHOLD : *  |
| NUMBER OF ASSOCIATED ROUTES      : 1             PRIORITY      : 2  |
| TDDRFLAG    : OFF    TDDRTHRESHOLD:                 SOURCEGROUPIDX : 1 |
| GDTRRULE    : 0      ACDPMGRP : 0                     |                   |
| THE FOLLOWING TRUNKS (LTG-LTU-SLOT-CCT) HAVE BEEN ALLOCATED:
+-----+
| 1- 5- 49-0        1 | 1- 5- 49-0        2 | 1- 5- 49-0        3 |
| 1- 5- 49-0        4 | 1- 5- 49-0        5 | 1- 5- 49-0        6 |
| 1- 5- 49-0        7 | 1- 5- 49-0        8 | 1- 5- 49-0        9 |
| 1- 5- 49-0        10 | 1- 5- 49-0       11 | 1- 5- 49-0       12 |
+-----+
```

/* Class of Trunk for Call Processing */

ADD-COT:COTNO=95,PAR=RCL&XFER&ANS&CHRT&CEBC&BSHT&KNDI&KNEX&BLOC&LWNC&NLCR&TSCS&ICZO&DFNN&NLRD&LINC&NOFT&IBBA&NTON;

```
<dis-cot:95;
PARAMETER:
RECALL IF USER HANGS UP IN CONSULTATION CALL          RCL
TRUNK CALL TRANSFER                                    XFER
TRUNK SIGNALING ANSWER                                ANS
CHANGEOVER FROM HOLD TO RING TONE                      CHRT
CALL EXTEND FOR BUSY, RING OR CALL STATE               CEBC
DON'T RELEASE CALL TO BUSY HUNT GROUP                 BSHT
CAMP-ON ON DID CALLS                                  KNDI
CAMP-ON AFTER EXTENSION OF INCOMING TRUNK CALLS      KNEX
END-OF-DIAL FOR BLOCK IS SET                           BLOC
SEND NO NODE NUMBER TO PARTNER                        LWNC
INCOMING CIRCUIT FROM SYSTEM WITHOUT LCR              NLCR
TSC-SIGNALING FOR NETWORKWIDE FEATURES (MANDATORY)   TSCS
INCOMING CDR ACTIVATE PER TRUNK                      ICZO
USE DEFAULT NODE NUMBER OF LINE                       DFNN
INCOMING CIRCUIT FROM SYSTEM WITHOUT LCR (DATA)       NLRD
LINE WITH IMPLICIT NUMBERS FOR CARRIER                LINC
NO FLAG TRACE                                         NOFT
SEND DIGITS VIA IN.BAND DTMF BEFORE ANSWER           IBBA
NO TONE                                              NTON
```

```

/* Class of Parameters for Device Handler */
ADD-COP:COPNO=95,PAR=L3AR&RRST;

<dis-cop:95;
PARAMETER:
    REGISTRATION OF LAYER 3 ADVISORIES          L3AR
    REFLECT RESTART INDICATOR AND B-CHANNEL BY RESTART          RRST

/* Class Of Service for the Trk */
ADD-COSSU:NEWCOS=95,INFO="95 IP/SIP FAX SRV";
CHANGE-COSSU:TYPE=COS,COS=95,AVCE=TA&TNOTCR&FWDNWK&TTT&FWDECA;

<DIS-COSSU:COS,95;
+-----+-----+-----+-----+
| COS   |   VOICE   |   FAX    |   DTE    |
+-----+-----+-----+-----+
| 95   | >95 IP/SIP FAX SRV
|       | TA        | NOCO    | NOCO    |
|       | TNOTCR   | NOTIE   | NOTIE   |
|       | FWDNWK   |          |          |
|       | TTT       |          |          |
|       | FWDECA   |          |          |
+-----+-----+-----+-----+

/* GW SIP Trunk on TDM side */
ADD-TDCSU:OPT=NEW,PEN=1-05-049-0,COTNO=95,COPNO=95,DPLN=0,ITR=0,COS=95,LCOSV=15,
LCOSD=10,CCT="FAX SERVER ",DESTNO=95,PROTVAR="ECMAV2",SEGMENT=1,DEDSVC=None,
TRTBL=GDTR,SIDANI=N,ATNTYP=CO,CBMATTR=None,TCHARG=N,SUPPRESS=0,TRACOUNT=31,
SATCOUNT=MANY,NNO=95,ALARMNO=0,FIDX=1,CARRIER=1,ZONE=EMPTY,COTX=95,Fwdx=10,
CHIMAP=N,UUSCCX=16,UUSCCY=8,FNIDX=1,NWMUXTIM=10,SRCGRP=1,CLASSMRK=EC&G711&
G729AOPT,TCCID="FAX SERVER",TGRP=95,SRCHMODE=CIR,INS=Y,SECLEVEL=TRADITIO,
DEV=HG3550CO,BCHAN=1&&12,BCNEG=N,BCGR=1,LWPAR=0,LWPP=0,LWLT=0,LWPS=0,LWR1=0,
LWR2=0,DMCALLWD=N;

<DIS-TDCSU:1-5-49-0;
+-----+-----+-----+-----+
| DEV      = HG3550CO  PEN      = 1-05-049-0  TGRP     = 95  |
|-----+-----+-----+-----+
| PROTVAR = ECMAV2    INS      = Y      SRCHMODE = CIR
| COTNO   = 95        COPNO   = 95     DPLN     = 0
| ITR     = 0          COS      = 95     LCOSV   = 15
| LCOSD   = 10         CCT      = FAX SERVER DESTNO  = 95
| SEGMENT = 1          DEDSCC   =          DEDSVC  = None
| FACILITY =           DITIDX   =          SRTIDX =
| TRTBL   = GDTR       SIDANI   = N      ATNTYP  = CO
| CBMATTR = None       NWMUXTIM = 10    TCHARG   = N
| SUPPRESS = 0          DGTPR    =          CHIMAP   = N
| ISDNIP   =
| PNPL2P   =
| TRACOUNT = 31        SATCOUNT = MANY   NNO     = 95
| ALARMNO = 0          FIDX     = 1      CARRIER  = 1
| ZONE    = EMPTY       COTX     = 95    FWDX    = 10
| DOMTYPE =
| INIGHT   =
| UUSCCX  = 16          UUSCCY   = 8      FNIDX   = 1
| CLASSMRK = EC        & G711    & G729AOPT SRCGRP  = 1
| TCCID   = FAX SERVER                         SECLEVEL = TRADITIO
|-----+-----+-----+-----+
| BCNEG   = N          BCGR     = 1      LWPAR   = 0
| LWPP    = 0          LWLT     = 0      LWPS    = 0
| LWR1    = 0          LWR2     = 0
| DMCALLWD = N         VNNO     =
| SVCDOM =
| BCHAN   = 1 && 12
+-----+-----+

```

```

5.4 /* LCR / DID # to access the Fax Server e.g.: 850.617-7781 */
ADD-WABE:CD=7781,DAR=TIE,CHECK=N;

/* LCR Outdial Rule, 7781 will be send to the SIP Trk */
ADD-LODR:ODR=95,CMD=ECHO,FIELD=1;
ADD-LODR:ODR=95,CMD=NPI,NPI=UNKNOWN,TON=UNKNOWN;
ADD-LODR:ODR=95,CMD=END;
ADD-LODR:ODR=95,INFO="7781 FAX SERVER";

<dis-lodr:95;
+-----+
| ODR      POSITION  CMD        PARAMETER   |
+-----+
| 95       | 1        ECHO      1           | |
|          | 2        NPI       UNKNOWN    |
|          | 3        TON       UNKNOWN    |
|          | 4        END       |           |
+-----+
| INFO:7781 FAX SERVER |
+-----+


/* LCR Direction Data */
ADD-RICHT:MODE=LRTENEW,L RTE=95,LSVC=ALL,NAME="FAX SERVER      ",TGRP=95,DNNO=95,
DTMFNCNV=FIX,DTMFPULS=PP300,DESTNO=95,INFO="7781 FAX SERVER",PDNNO=95;

ADD-LDAT:LROUTE=95,LSVC=ALL,LVAL=1,TGRP=95,ODR=95,LAUTH=1,CARRIER=1,ZONE=EMPTY,
LATTR=NONE,DNNO=95,VCCYC=4,COTIDX=95;

<dis-ldat:lcr,95;
+-----+
| LROUTE = 95     LDPLN      NAME = FAX SERVER           SERVICE = ALL |
| TYPE = LCR      |           |                           DNNO OF ROUTE = 95 |
| SERVICE INFO = 7781 FAX SERVER |           |           |           |
+-----+-----+-----+-----+-----+-----+-----+-----+
|     |     |     |     | SCHEDULE | CARRIER |     |     |
| LRTEL | LVAL|TGRP | ODR|LAUTH | ABCDEFGH | ZONE | LATTR | LDSRT|COTIDX |
+-----+-----+-----+-----+-----+-----+-----+-----+
|     1|     1| 95| 95| 1 | ***** | 1     EMPTY|     NONE |     95 |
|     |     | |DNNO = 95 |           |           |           |           |
+-----+-----+-----+-----+-----+-----+-----+-----+


/* LCR Dial Plan List */
ADD-LDPLN:LCRCONF=LCRPATT,DIPLNUM=0,LDP="7781",DPLN=0,LROUTE=95,LAUTH=1;

<DIS-LDPLN:CD,7781;
+-----+
| CD    7781             --->           |
+-----+
| LDPNO | LDP           | DIPLNUM   |
+-----+
| 94   | 7781           | 0          |
+-----+
<DIS-LDPLN:LDP,,94;
+-----+
| DIPLNUM: 0           |
| LDPNO : 94| LDP : 7781 |
|           | SPC : 22   |
|           | FDSFIELD : 0 SDSFIELD : 0 PINDP : N |
+-----+
| DPLN | LROUTE| LAUTH |
|-----+-----+
| 0   | 95  | 1           |
+-----+

```

LCR SUMMARY: Telco TDM DID #7781 -> LCR 95 -> TRK Group 95 -> SIP GW =>
=>INVITE sip: 7781@167.95.1.24; transport=udp

6. Native SIP connection changes

6.1. Access SIP GW with Assistant -> Expert Mode -> Gateway Dashboard

User Info			License Management		
User name	USA\om837441@MTS2DALusa	Client IP	System number	L3190420373U00001	
			Flex licenses	3060	
			License available	3109	
			Grace period	No	
Status Board			Configuration Management		
System Time	2013-02-04 12:36 EST	OK	Upload Status	SYNCHRONOUS	
TimeZone Status	DUPLEX / DSCXL2	OK	Stations	SYNCHRONOUS	
Platform DeploymentHW	OK	LCR	SYNCHRONOUS		
Last Data Backup	No backup yet	System Data	SYNCHRONOUS		
Last Logical Backup		HIM Data	SYNCHRONOUS		
APMode	Host	HIM SWU	SYNCHRONOUS		
APE Sync Status	Error	HIM ADP	SYNCHRONOUS		
Component	Version	System Start date/time			
Platform	V6 R1.12.1	2012-06-22 17:52			
Assistant	V6 R1.13.6	2012-12-02 16:48			
RMX	V6 R1.12.18	2012-11-13 18:44			
CSTA	V1 R11.204.4				
SoftGate on Platform	Not installed				
HiPath FM	HPFM_4 R3.10.02				

6.2. Host HiPath System (HHS) pen=ltg-ltu-slot = 1-5-49 = STMI; click on WBM (WeB Management)

Gateway Dashboard					
Slot	Type	IP Address	Port	Status	Link
1-4-49	STMI4	HG3570	10.195.1.249	Ready	[WBM] [SSH]
1-4-73	LTUCA			Ready	
1-4-79	STMI4	HG3530	10.195.1.254	Ready	[WBM] [SSH]
HHS "1-5"					
1-5-49	STMI4	IIG0550	10.195.1.242	Ready	[WBM] [SSH]
1-5-73	LTUCA			Ready	
1-5-79	STMI4	HG3530	10.195.1.239	Ready	[WBM] [SSH]
AP shelf "1-17", access point "1-17-6"					
1-17-1	SLMO24			Ready	
1-17-3	SLMA24			Ready	
1-17-6	NCU14		10.195.20.251	Ready	[WBM] [SSH]

6.3. Explorer -> Voice Gateway -> SIP Trunk Profiles -> NatTrkWithoutRegistration

=> right mouse click and select Edit. Make sure the lock icon is unlocked...

Change SIP Transport Protocol from TCP to UDP; the SR140 does not answer tcp signalling.

Set the Proxy field with Fax Server IP Address (e.g. 167.95.1.24).

Scroll down the page and at the bottom, click on Apply.

Go back to NatTrkWithoutRegistration and right mouse click, choose Activate; folder turns green

Click on the red diskett icon to save the settings.

Restart the card clicking on the circular arrow icon.....or with amo-BSSU.....

6.4 Check also on Voice Gateway -> SIP Parameter => SIP Transport Protocol ->
SIP via UDP = Yes



7. Dialogic® Brooktrout® SR140 Fax Software Setup Notes

The Installation and Configuration Guide used to set up the SR140 is available from the site below:

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

The SR140 callctrl.cfg file used in the sample test configuration is shown below for reference.

```
#  
#  
api_trace=BASIC  
host_module_trace=BASIC  
internal_trace=BASIC  
ip_stack_trace=BASIC  
I3I4_trace=BASIC  
I4I3_trace=BASIC  
max_trace_file_size=10  
max_trace_files=2  
trace_file=C:\callctrl.log  
vtty_trace=TRUE  
  
[host_module.1]  
enabled=true  
module_library=brktsip.dll  
  
[host_module.1/t38parameters]  
T38_fax_version=0  
fax_transport_protocol=t38_only  
media_passthrough_timeout_inbound=1000  
media_passthrough_timeout_outbound=6000  
media_renegotiate_delay_inbound=1000  
media_renegotiate_delay_outbound=-1  
rtp_ced_enable=TRUE  
t38_UDPTL_redundancy_depth_control=5  
t38_UDPTL_redundancy_depth_image=2  
t38_fax_fill_bit_removal=FALSE  
t38_fax_rate_management=transferredTCF  
t38_fax_transcoding_JBIG=FALSE  
t38_fax_transcoding_MMR=FALSE  
t38_fax_udp_ec=t38UDPRedundancy  
t38_max_bit_rate=14400  
t38_t30_fastnotify=FALSE  
t38_type_of_service=0  
  
[host_module.1/rtp]  
rtp_codec=pcmu pcma  
rtp_frame_duration=20  
rtp_jitter_buffer_depth=100  
rtp_silence_control=inband  
rtp_type_of_service=0  
rtp_voice_frame_replacement=0  
  
[host_module.1/parameters]  
sip_Contact=167.95.1.24  
sip_ContactV6=  
sip_From=Anonymous <sip:xxxxxxxx@167.95.1.24>  
sip_Max-Forwards=70  
sip_Route=  
sip_default_gateway=10.195.1.242  
sip_description_URI=  
sip_email=  
sip_ip_interface=
```

```
sip_ip_interfaceV6=
sip_ip_interface_port=5060
sip_ip_interface_portV6=5060
sip_ip_preference=IPV4_ONLY
sip_max_sessions=256
sip_phone=
sip_proxy_server1=0.0.0.0
sip_proxy_server2=0.0.0.0
sip_proxy_server3=0.0.0.0
sip_proxy_server4=0.0.0.0
sip_redirect_as_called_party=0
sip_redirect_as_calling_party=0
sip_registration_interval=60
sip_registration_server1=0.0.0.0
sip_registration_server1_aor=
sip_registration_server1_expires=3600
sip_registration_server1_password=
sip_registration_server1_username=
sip_registration_server2=0.0.0.0
sip_registration_server2_aor=
sip_registration_server2_expires=3600
sip_registration_server2_password=
sip_registration_server2_username=
sip_registration_server3=0.0.0.0
sip_registration_server3_aor=
sip_registration_server3_expires=3600
sip_registration_server3_password=
sip_registration_server3_username=
sip_registration_server4=0.0.0.0
sip_registration_server4_aor=
sip_registration_server4_expires=3600
sip_registration_server4_password=
sip_registration_server4_username=
sip_session_description=
sip_session_name=no_session_name
sip_session_timer_minse=-1
sip_session_timer_refresh_method=0
sip_session_timer_session_expires=0
sip_username=-
```

```
[module.41]
cc_type=0
channels=12
exists=1
model=SR140
pcm_law=MULAW
set_api=BFV
static_ring_detect_enable=TRUE
vb_firm=C:\...\Firmware\bstvb.dll
virtual=1
```

```
[module.41/ethernet.1]
ip_interface=
ip_interfaceV6=
ip_preference=IPV4_ONLY
media_port_max=57000
media_port_min=56000
```

```
[module.41/host_cc.1]
host_module=1
number_of_channels=12
```

8. Dialogic® Brooktrout® TR1034 Setup Notes

For the sample test configuration, the TR1034 was configured using the default values with V.34 disabled. Consult the *Dialogic® Brooktrout® Fax Products Installation and Configuration Guide* for details.

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

9. Frequently Asked Questions

- *"I'm configured as near as possible to this the sample configuration described in this document, but calls are still not successful; what is my next step?"*
 - ➔ Provide this document to your gateway support.
 - ➔ Ensure that the same transport mode is enabled on the gateway and the SR140 (i.e. both set to T.38 or both set to G.711)
 - ➔ Confirm that basic network access is possible by pinging the gateway.
- *"How do I obtain Wireshark traces?"*
 - ➔ The traces can be viewed using the Wireshark network analyzer program, which can be freely downloaded from <http://www.wireshark.org>.
 - ➔ To view the call flow in Wireshark, open the desired network trace file and select "Statistics->VoIP Calls" from the drop down menu. Then highlight the call and click on the "Graph" button.