



**Dialogic[®] Brooktrout[®] SR140 Fax Software with
AudioCodes Mediant 1000 Gateway
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 **AudioCodes Mediant 1000 Gateway** for use with the **Dialogic® Brooktrout® SR140 Fax over IP (FoIP) software platform**. For the purpose of this integration note, the system was configured for general use and not for automatic (that is, DID) fax routing. 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 **AudioCodes Mediant 1000** with the **Dialogic® Brooktrout® SR140**.

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® Brooktrout® SR140 Fax Software and Dialogic® Brooktrout® TR1034 Fax Boards will sometimes be denoted herein, respectively, as SR140 and TR1034. All references to the SDK herein refer to the Dialogic® Brooktrout® Fax Products SDK. The AudioCodes Mediant 1000 will sometimes be denoted herein as Mediant 1000, or some other form thereof.

2. Configuration Details

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

2.1 AudioCodes Mediant 1000 Gateway

Vendor	AudioCodes
Model	Mediant 1000 Gateway
Software Version	5.60A.027.002
Protocol to PSTN Device	Analog
IP Device	Dialogic® Brooktrout® SR140 Fax Software
Protocol to IP Device	SIP
callctrl.cfg file	All defaults

2.2 Dialogic® Brooktrout® SR140 Fax Software

Vendor	Dialogic
Model	Dialogic® Brooktrout® SR140 Fax Software
Software Version	SDK 6.2.1
Protocol to Gateway	SIP
callctrl.cfg file	All defaults

2.3 Microsoft® Exchange Server 2010

Vendor	Microsoft®
Model(s)	Exchange 2010
Software Version(s)	Version: 14.00.0639.021
IP Device	Dialogic® Brooktrout® SR140
Gateway	AudioCodes Mediant 1000

2.4 Network System Configuration

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

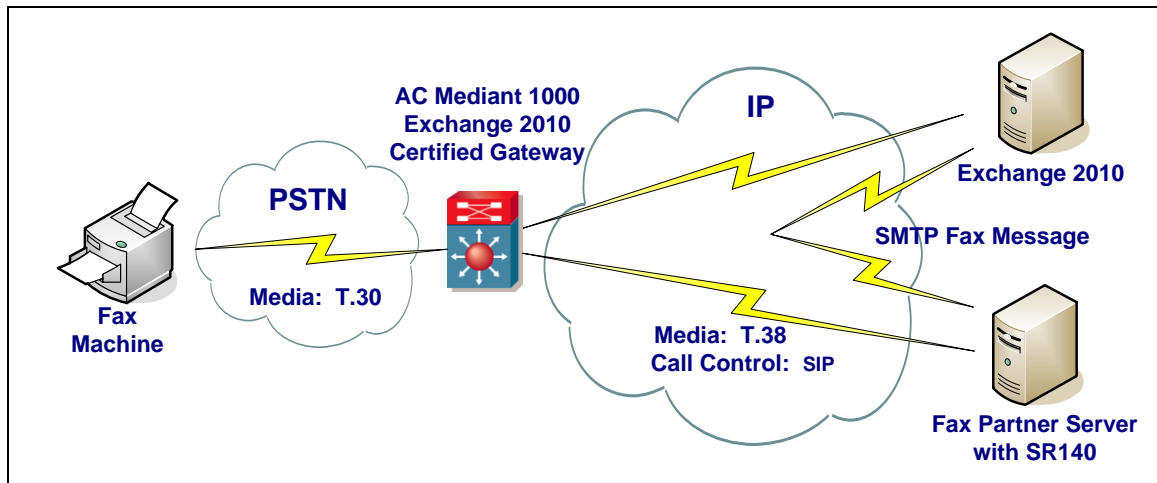


Diagram Notes:

- Fax Partner Server = Fax Server including Dialogic® Brooktrout® SR140 Fax Software and fax test application

3. Prerequisites

None.

4. Summary of Limitations

The AudioCodes Mediant 1000 Gateway does not support CNG via RFC2833. As a result, Exchange 2010 must be configured to detect inband fax tones.

To configure the Exchange 2010 server to enable this support, the user must modify the **MSExchangeUM** config file that is located in the **V14\Bin directory** of their Exchange 2010 installation.

The key for **EnableInbandFaxDetection** shall be modified to be **TRUE**.

```
<!-- Specifies whether inband fax detection is enabled. If false, UM relies on the  
IP Gateways to perform detection. -->
```

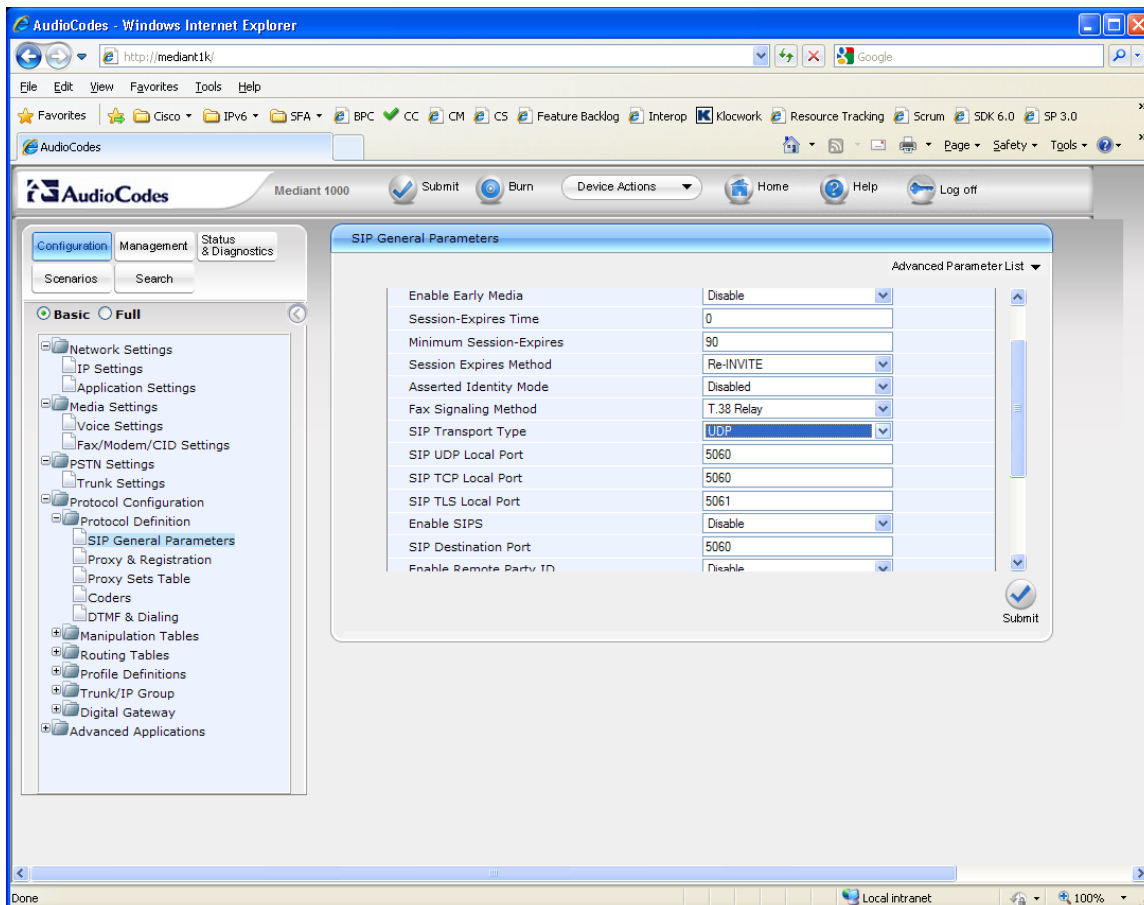
```
<add key="EnableInbandFaxDetection" value="TRUE"/>
```

After this key has been modified, the Exchange 2010 server must be restarted for the new settings to go into effect.

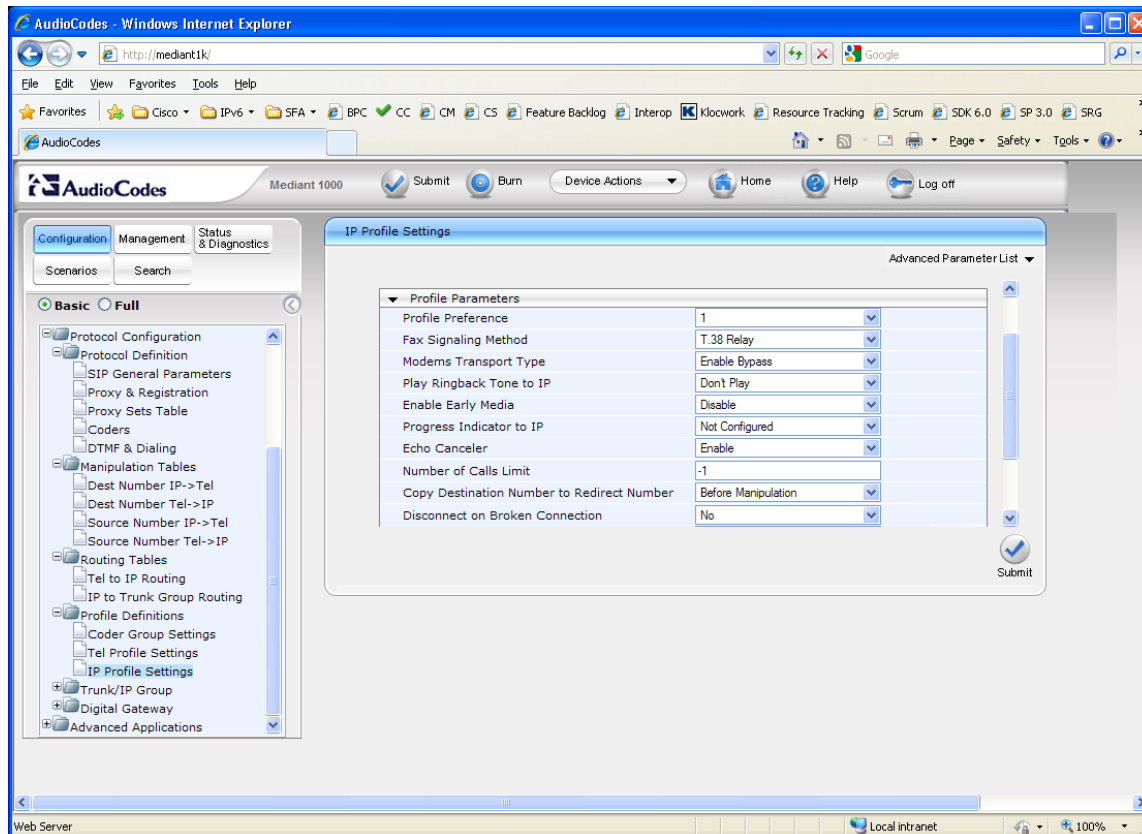
5. AudioCodes Mediant 1000 Gateway Setup Notes

The *Configuration Guide Enabling Fax for Microsoft Exchange Server 2007* provided by AudioCodes was used to configure the Mediant 1000 for the sample test configuration.

The Mediant 1000 gateway must be configured with the SR140 fax server to use UDP instead of TCP. The option for the SIP Transport Type is located under the SIP General Parameters as shown below.



In the IP Profile Settings, the setting of Copy Destination Number to the Redirect number was updated from disable to Before Manipulation.



6. Dialogic® Brooktrout® SR140 Fax Software Setup Notes

For the sample test configuration, the default callctrl.cfg included with SDK 6.2.1 was used.

The Installation and Configuration Guides for the SR140 are available from the following site:

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

7. Microsoft® Exchange Server 2010 UM Setup Notes

The Installation and Configuration Guide for Microsoft Exchange 2010 was used to configure the Exchange server, document number 64-0600-20.

8. 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 T.38 is enabled on the gateway.
 - ➔ 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.