

# Intel TIMG 1200DTI SIP Digital Gateway



## 1 Important Notes

- Check the *SIP 3<sup>rd</sup> Party Validation Website* for current validation status. The *SIP 3<sup>rd</sup> Party Validation Website* can be viewed at:

<http://testlab.inin.com> or <http://testlab.vonexus.com>

- As this unit is a critical piece of the SIP infrastructure, it is highly recommended that DHCP not be used. A static IP address is the preferred method and is how the unit was configured during validation.

## 2 Vendor Documentation

Documentation on the Dialogic website:

<http://www.dialogic.com/support/helpweb/mg/default.htm>

## 3 Validated Firmware Version

v5.1.70

## 4 Caveats

According to the Dialogic documentation, Early Media is support on the Intel TIMG 1200DTI gateway. During the firmware validation, we were not able to verify this.

## 5 Install

Download the Intel TIMG 1200DTI files from the 3<sup>rd</sup> Party Validation website:

<http://www.testlab.inin.com> or <http://www.testlab.vonexus.com>

Contained in the zip file will be the validated version of firmware as well as any supplemental configuration files, and sample .ini files.

This document applies to one or more Interactive Intelligence and/or Vonexus products.  
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## 6 Configuration

### Methods:

- Serial Port and HyperTerminal – This method was used for the initial configuration, to set:
  - TIMG IP address
  - TIMG Subnet Mask
  - TIMG Network Gateway IP
  - Operating Mode
  - PBX Type = T1/E1
  - Line Mode – CAS or ISDN
- Web interface - This method was used to configure the unit during validation. There are many advanced options that are exposed in the web interface. Caution should be exercised and the Intel TIMG 1200DTI documentation should always be referenced when using the web interface configuration option.
- Manipulation of the .ini file, then uploading it via the web interface.
- TFTP - This has not been tested.

### Initial Setup:

- Unzip the ZIP file containing the Intel TIMG 1200DTI configuration files and firmware.
- Follow the instructions in the Getting Started Guide on the Dialogic website (<http://www.dialogic.com/support/helpweb/mg/default.htm>) for getting an IP address assigned to the IP Media Gateway box. The preferred method for initially logging onto the IP Media Gateway is via the serial port.
- Start a web browser and connect to the TIMG using the IP address of the Intel TIMG 1200DTI.
- Logon using the default username **admin** and default password, **IpodAdmin**. It is recommended to change the password at this time for security reasons.

### Download Current Firmware:

- Select the *Upgrade* web page from the *Configure* menu. **Caution:** When a major software upgrade is performed, existing configuration information may be erased and the default values restored. It is recommended that before upgrading the software, you should export the current configuration information using the Export utility. Go to the *Import/Export* page on the *Configure* menu.
- Click the "Browse..." button and selecting the appropriate \*.fsh file for the model being upgraded.
- Click the Install button to upload the file. The TIMG will respond once the upgrade is complete. **Do Not Restart or Power Cycle the unit.**
- Select the *Upgrade* web page from the *Configure* menu.
- Click the "Browse..." button to select the next file to upgrade.

- Click the Install button to upload the file. The TIMG will respond once the upgrade is complete. **Note:** If you get an error during the upgrade, do **not Restart or Power Cycle the unit**. Simple retry the upgrade.
- Repeat upgrade steps until all files as been uploaded. (**t1e1\_5.1.70.app, t1e1\_5.1.70.fsh, T1D1\_MR6\_4.msd**)
- When all files have been uploaded and installed, select *Restart* from the *Configure* menu.
- Click the "Restart Now" button on the *Restart* page.
- The unit will restart using the new software.
- Once the restart is complete, return to the web interface and click on the *Version* web page from the *SIP Status* menu. The displayed version should match the firmware version as noted in Validated Firmware Version section. If it does not, double check the upgrade steps and consult the Intel TIMG documentation if necessary.

### Changing the Configuration:

- Prior to making any changes, the Intel TIMG documentation should be consulted for information on configuration parameters, options and functions.
- Changes can be made via the web interface or .ini file.
- Description of more significant parameters. This is not a comprehensive list of all parameters found in the .ini file. A **bold** face parameter name indicates that it should be changed to represent specific site information.

Parameter	Description
<b>Audio Compression</b>	Sets a system coder/decoder to be used by the Gateway. <i>Values:</i> G711 G723.1 G729AB
RTP Digit Relay Mode	Selects the RTP method by which DTMF digits are transported between the TDM network and the VoIP network. <i>Values:</i> None RFC2833 Inband-Tone (only reliable when the Preferred Codec is G711)
<b>RTP Fax/Modem Tone Relay Mode</b>	Selects the Realtime Transfer Protocol (RTP) method by which fax and modem tones are transported between the TDM network and VoIP network. <i>Values:</i> RFC2833 <b>Inband-Tone</b>
Fax IP-Transport Mode	Defines the method used by the gateway to transport fax calls over IP. <i>Values:</i> T.38 G.711 Passthrough None
Call Connect Mode	Specifies when the voice path is established between the IP device endpoint and the PBX on inbound IP calls. <i>Values:</i> Instant = media is established as soon as dialing is complete on the outbound PBX call. OnAnswer = media is established when voice is detected or ringback tone cadence is broken on

	the outbound PBX call. (Early Media support)
sipEarlyMediaSupport	Enables or disables early media support. (Set to Yes by default) Parameter can only be changes via the .ini file. <i>Values:</i> Yes No
<b>Line Mode</b>	Selects Line Mode. <i>Values:</i> T1 (23/24 channels) E1 (30 channels)
<b>Signaling Mode</b>	Enter Signaling Mode used on Interface. <i>Values:</i> CAS = Channel Associated Signaling ISDN = Integrated Services Digital Network
<b>Interface Side</b>	Identify Side of the Connection. <i>Values:</i> Terminal = User Side Network
<b>ISDN Protocol</b>	Type of ISDN Protocol. <i>Values:</i> QSIG NI-2 5ESS DMS100
<b>Line Encoding</b>	Selects Line Encoding Scheme. <i>Values:</i> AMI = Alternate Mark Inversion B8ZS = Binary 8-bit Zero Substitution
<b>Framing</b>	Selects Framing Format. <i>Values:</i> SF = Super-frame Format ESF = Extended Super-frame Format

## 7 Redundant Proxy Configuration

The following configuration options are found under Gateway Routing tab on the Gateway page under the Configure menu in the web interface. In order for the Intel TIMG 1200DTI to function in a failover environment, the following values must be set:

Parameter	Description
<b>VoIP Endpoint ID</b>	Specifies a VoIP endpoint address ( Interaction Center Server) to which calls are routed by the Gateway. <b>Note:</b> Additional VoIP Servers can be added to the list. Each VoIP Endpoint entered will be used as part of the Fault Tolerance and/or Load Balancing.
Fault Tolerance Enabled	Enables/Disables fault-tolerant handling of outbound VoIP calls. If 'Yes', the Gateway will failover to the next configured VoIP endpoint. <i>Values:</i> Yes No