MICROMEDIA INTERNATIONAL telecommunication & multimedia	Micromedia Inte	erna	tional	Technical study	
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Company: Micromedia	International				
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Diva boards testing <u>Réf. :</u> ETT_20100924_000001.docx This document explains how to check the Diva boards and how to analyze their dysfunctions.					
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Installation

For the installation, please refer to the Dialogic Media Board Installation Guide you can download on the Dialogic web site.

After the installation, all the Diva tools can be accessed from the Start Menu.



Configuration

The installed board needs to be configured to fit the telephony network.

The configuration manager:



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This screenshot has been done for an Analog 2 board.

Ask the telephony provider to know the parameters to set.

Test

Before using Micromedia software, check if the Diva board is in a stand-alone process.

Dialogic(R) Diva(R) Line Test	×
Line Check/HW test Phone/Loop Call Transfer Fax Informat Line Check verifies if the connection works properly. Hardware test is not supported by this device. Device Device Device Dev 1: Dialogic Diva Analog-2 PCI v1 #10068 Line 1 Image: Check Line Check Test is not started Start Start Log View Log	
Hardware Test Hardware Test is not supported by this device.	
CloseAide	,

Select the correct device in the list.

With no cable plugged in, perform a hardware test if available for the selected device.

Plug the cable (Analog or ISDN line). Then perform a line test to check connectivity.

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To check the answer of the board, you can do a phone loop test. Define the called and calling parties before running the test.

Dialogic(R) Diva(R)	Line Test			×	
Line Check/HW test	Phone/Loop	Call Transfer	Fax	Information	
The Phone/Loop test performs a simple test call to another phone or a loop to itself. Device					
🖾 Dev 1: Dialog	gic Diva Analog	2 PCI v1 #1006	8 Line 1	•	
Call Settings Called Party Number Calling Party Number Advanced Enable incoming calls (enter your own number for a loopback test)					
				Call	
				Clear	
				History	
				Start Log	
				View Log	
		CI	ose	Aide	

Logging

To diagnose a problem, use the diagnostic tool.

😤 Dialogic (R) Diva (R) Diagnostics					
File Edit View Tracing Help					
🖃 📽 🔛 🤋 🕺 🔤 🗖	B E 🗹 🗙 🔶 = 🖇	5 🔑 I	D Trace inactive, no data available.		
Diva Tracing	Category	ID	Description		
🖻 🖷 🛄 Trace Masks	D-Channel	D	Displays D-channel data as raw hex frames.		
Drivers	☑ Layer 1	1	Displays layer 1 state changes.		
Maintenance Driver	Call Comments (SIG)	С	Displays decoded information for signaling frames and states.		
	Low Layer	0	Displays decoded low layer information		
CODI Driver	Network Layer	N	Displays B-channel establishment and data indication.		
Dialogic Diva Boards	Data Link Error	F	Displays layer 2 link errors.		
Analog 2 PCI v1 #10068	Miscellaneous	S	Textual information on call states etc.		
	Extended	S	Displays module-specific detailed information.		
	B-Channel Data	В	Displays B-channel data as raw hex frames.		
	Modulation	М	Information on modulation and demodulation.		
	🗹 Analog Error	t	Displays error related to the analog signaling.		
	🗹 Analog Rx Frames	n	Displays special received data as raw hex frames.		
	Analog ABCD	с	Displays the state of the in-band status bits ABCD.		
	Analog CPN	s	Displays received called party information.		
	🗖 Analog Layer 2	х	Displays layer 2 information as raw hex frames.		
	Analog Receive Timer	r	Displays timer information for received events.		
	Analog Details		Displays detailed information.		
	🗖 Analog Transmit Timer		Displays information for transmit timer events.		
	Analog States	0	Displays information about the various logical states.		
	Analog Diagnostics	2	Displays diagnostics information.		
	🗖 Analog Hook	3	Displays information about the hook state of each channel.		
For Help, press F1				Recorded 0 Bytes	

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Select your device in the left tree view.

Select the logs you want in the file. (If you don't know what to check, check all)

Select the CAPI driver tree view item

Check all.

Then configure the output



Now we can start the traces: Press the red circle button.

The traces are now running:

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🍣 Dialogic (R) Diva(R) Diagnostics	;		
File Edit View Tracing Help			
🖃 👺 🔛 😵 📢 🖮 🗖	B E 🗹 🗙 🔹 🛢 🔇	5 0	D 📑 0101 1100 1101 0101 0011 0101
🚞 Diva Tracing	Category	ID	Description
🖻 💼 Trace Masks	🗹 General Logging	L	Contains information about startup and termination.
- Drivers	Fatal Errors	F	Fatal errors that prevent the driver from working correctly.

To stop the traces press the black button.

Press the eye button to show the logs produced. If necessary, send this file to Micromedia support.

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