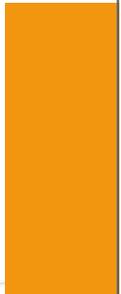




**biamp.**

**Devio**  
**Text Protocol**  
**v1.2**



FEBRUARY 2017

# Table of Contents

Devio Text Protocol.....	1
RAW Connection settings.....	1
SSH Connection settings.....	1
Syntax.....	2
Instance Tag.....	2
Command.....	3
Attribute.....	3
Value.....	4
Response strings.....	4

# Devio Text Protocol

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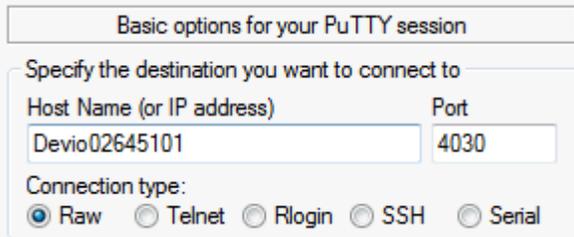
Using a terminal emulator the Devio API can be accessed via the CR-1 Management port.

The connection used by a Devio CR-1 if 'Plain Text DTP' is enabled in the device Properties is RAW. If Plain Text DTP is disabled, an SSH session is required. User authentication is required upon connection to either method. The password configured on the unit is required.

Once authenticated, additional commands can be actioned.

## RAW Connection settings

1. Enter the IP address or hostname of the device
2. Connection Type: Raw
3. Port: 4030
4. Open the connection and enter a carriage return <CR> to access the password prompt
5. Enter the device password (default 'devio')



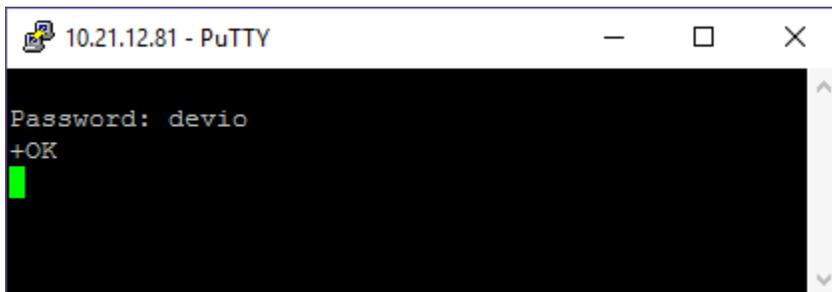
Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)	Port
Devio02645101	4030

Connection type:

Raw    Telnet    Rlogin    SSH    Serial



## SSH Connection settings

1. Enter the IP address or hostname of the device
2. Connection Type: SSH
3. Port: *<as specified in the device properties sheet in the SAU>*
4. Open the connection
5. Enter the user: **biampdtp** <-this is fixed and is unable to be modified
6. Enter the device password (default is 'devio' and will be masked)
7. *Optional:* Enter **DEVICE get appVersion**, or other DTP command for a response to confirm authentication. If authentication fails, an **Access denied** response will be given and the password prompt presented again

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)  Port

Connection type:  
 Raw  Telnet  Rlogin  SSH  Serial

```
10.21.12.81 - PuTTY
login as: biampdtp
biampdtp@10.21.12.81's password:
DEVICE get appVersion
+OK "value":"1.1.0.2"
█
```

## Syntax

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The command structure is formatted in the following manner:

**<Instance\_Tag> <Command> <Attribute> [value]**

- **Instance\_Tag:** is always required. Is case sensitive. See the [Instance Tag](#) section for more information.
- **Command:** is always required. This can be requesting, setting or resetting an Attribute. See the [Command](#) section for more information.
- **Attribute:** is always required. Review the [Attribute](#) section for more details.
- **Value:** Is shown in [Brackets] and may be required depending on the Command or Attribute being referenced. If not required a value should not be defined. See the [Value](#) section for more information.

A number of [response strings](#) will be shown for correct and incorrect commands.

Example
<pre>DEVICE get appVersion +OK "value":"1.1.0.4"  DEVICE get microphoneType +OK "value":"1"</pre>

## Instance Tag

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The Instance Tag defines an instruction and function for a Hardware item to perform. It is case sensitive and must be in capital letters.

Instance Tag	Attribute Description
DEVICE	The CR-1 that the third party system is connected to.

## Command

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The Command field specifies what is to be done. The following table lists the Attribute commands that are supported. These are case sensitive and the availability of the command would depend on the Attribute. The following table shows the Commands which only apply to Attribute Codes. An Attribute Code may not support all of them, but it will support at least one.

Command	Attribute Description
get	An attribute to be read. The value will be returned in response
set	An attribute to be set to a specific value
reset	Sets the attribute back to the factory default setting

## Attribute

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The Attribute Code defines the portion of the CR-1 to be controlled.

Attribute Description	Attribute Code	Command
Application Version	appVersion	get
SNMP Version	snmpVersion	get
Microphone Type	microphoneType	get
Number of Microphones	numberOfMicrophones	get
Line Fault	lineFault	get
Call in Progress	callInProgress	get
Microphone Audio Present	micAudioPresent	get
Far-end Audio Present	farEndAudioPresent	get
Upstream USB Connection Type	usbConnection	get

Auto Setup Status	autoSetupStatus	get
Password	password	set
Device Name	deviceName	get / set / reset
Device Location	location	get / set / reset
Enable DHCP	enableDHCP	get / set / reset
SNMP Trap Destination	trapDestination	get / set / reset
Gateway	gateway	get / set / reset
IP Address	ipAddress	get / set / reset
Netmask	netmask	get / set / reset
System Date and Time	systemTime	get / set / reset
Start Auto Setup	initiateAutoSetup	set
Amplifier Load Impedance	ampLoadImpedance	get / set / reset
Master Microphone Mute	masterMicMute	get / set / reset
Enable Headset	enableHeadset	get / set / reset
Enable USB Video	enableUsbVideo	get / set / reset

## Value

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Whenever a 'set' command is specified a Value is required. A 'get' or 'reset' typically doesn't require a Value to be specified.

## Response strings

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Devio Text Protocol will provide feedback if a command is incorrect. The response will vary depending on the command. The error responses for the most common types of external programming errors include:

- can't forward a request to a device that's not on the network
- if an invalid address is used
- if an invalid attribute or service for a block type (it might be valid for a different object)
- the request doesn't make sense given the current state of the device
- case-and-spelling errors of various kinds

Please refer to the table below for some examples and details of some of the expected error responses.

<b>Command String</b>	<b>Message</b>	<b>Resolution</b>
	+OK	The command was understood and completed successfully
	-ERR <Fault Description>	-ERR will always precede a fault description. Please confirm the command was formatted correctly