

# InnoMedia MTA6328 Quick Configuration Guide

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## 1 MTA6328 General

This Quick Reference Guide provides easy steps to login the unit and perform basic configuration quickly to make a first call, and discusses some debug utilities in the CLI. It does not cover auto-provisioning.

## 2 Admin WEB Console

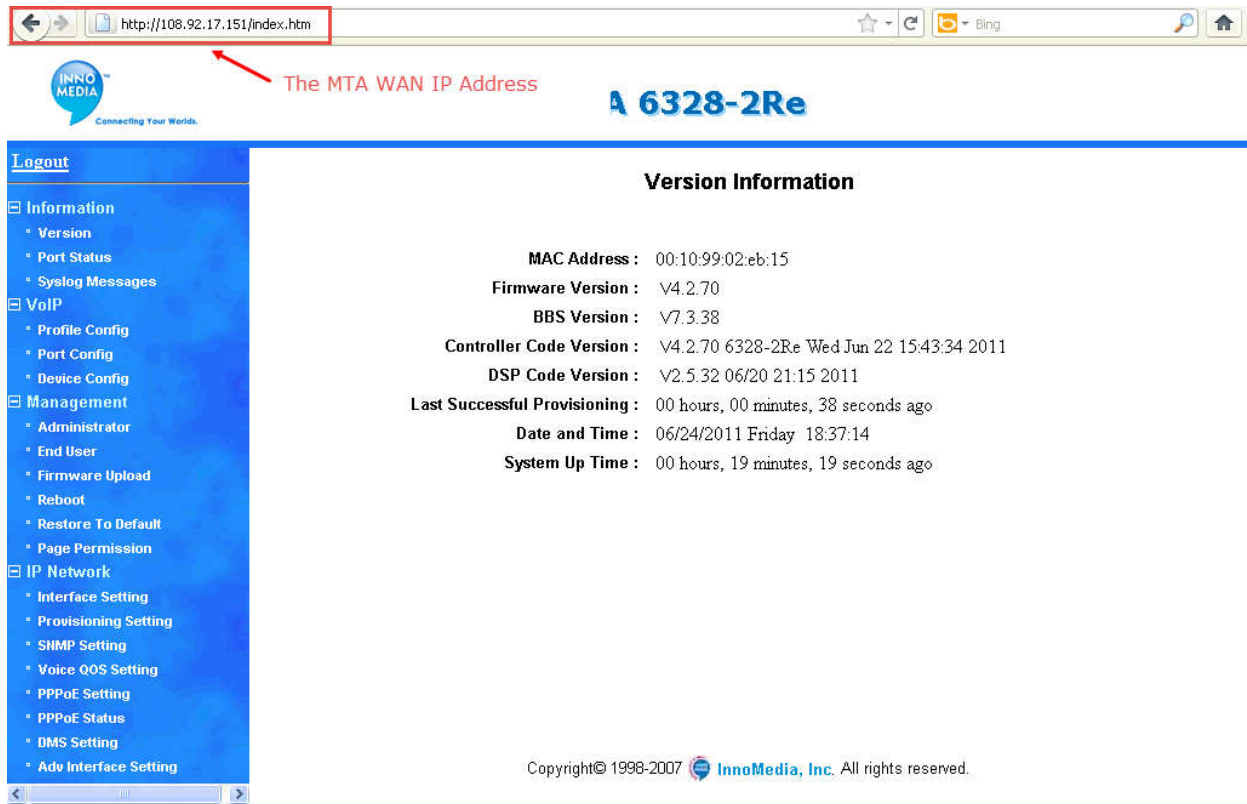
- Access the MTA from its WAN Interface. By default, the MTA WAN interface is configured as DHCP client. Dial \*\*\*1 from the phone to check WAN IP assigned by the router.
- Access the MTA from its LAN interface. The default IP address of the MTA LAN interface is 192.168.99.1. Configure the NIC which connects to the MTA LAN interface with a fixed IP in the same subnet of 192.168.99.X/24, e.g., 192.168.99.2.

Enter the IP address of the MTA to your web browser, and you will get the pop-up screen to input "User Name" and "Password". Default User Name and Password is "Admin" and "password" respectively.



### 2.1 Main Page

The Main page contains details of the "Firmware Version" and time since last successful provisioning. It also gives the "System Up Time" which shows how long the device is running since it last rebooted or powered-up.



## 2.2 Port Status Screen:

1. User Account/Phone Number registration status can be seen in the Port Status menu. In addition to each port’s registration status, it gives real-time off-hook or talk state status.

## 2.3 VOIP Profile Configuration

1. The SIP Proxy, Domain, digit map, packetization time, and codec information can be configured on the Profile Config Menu.
2. You may select the Port Config menu to see other details for each FXS port or line of the device

---

Note: Whatever is configured on the “Port Config” will override what is configured in “Profile Config”.

---



- The default of the Digimap is **\*\*\*1|X.T|X.#** and won't show on the GUI. If there is at least one digit map rule configured, then the MTA will only apply the configured rules and ignore the default. You will need to configure these three default if you are using them. (Please refer to 5 for descriptions of digitmap configuration rules.)

**MTA 6328-2Re**

**Profile Configuration**

**profile 1 Profile Information**

Profile No.	1	Profile Name	<input type="text"/>
SIP Proxy	FGDN_of_SIP_Proxy	Local SIP port	5060
Enable Outbound Proxy	<input checked="" type="checkbox"/>	SIP Domain	SIP_Domain

**Preferred Codec**

Packetization time(max 60ms)

Hi        Lo

**Digitmap**



## 2.4 Configuring IP Address

IP address configuration can be done on Interface Setting menu. By default, the device is configured as a DHCP client.

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Connecting Your Worlds.

### MTA 6328-2Re

**Logout**

- Information
  - Version
  - Port Status
  - Syslog Messages
- VoIP
  - Profile Config
  - Port Config
  - Device Config
- Management
  - Administrator
  - End User
  - Firmware Upload
  - Reboot
  - Restore To Default
  - Page Permission
- IP Network
  - Interface Setting**
  - Provisioning Setting
  - SNMP Setting
  - Voice QoS Setting
  - PPPoE Setting
  - PPPoE Status
  - DNS Setting

#### Configure Network Setting

MAC Address 00:10:99:02:eb:15

##### IP Setting

Enable DHCP

IP Address

Subnet Mask

Default Gateway

DNS #1

DNS #2

FQDN

##### Link Speed

Auto Speed  100MB  10MB

##### Link Mode

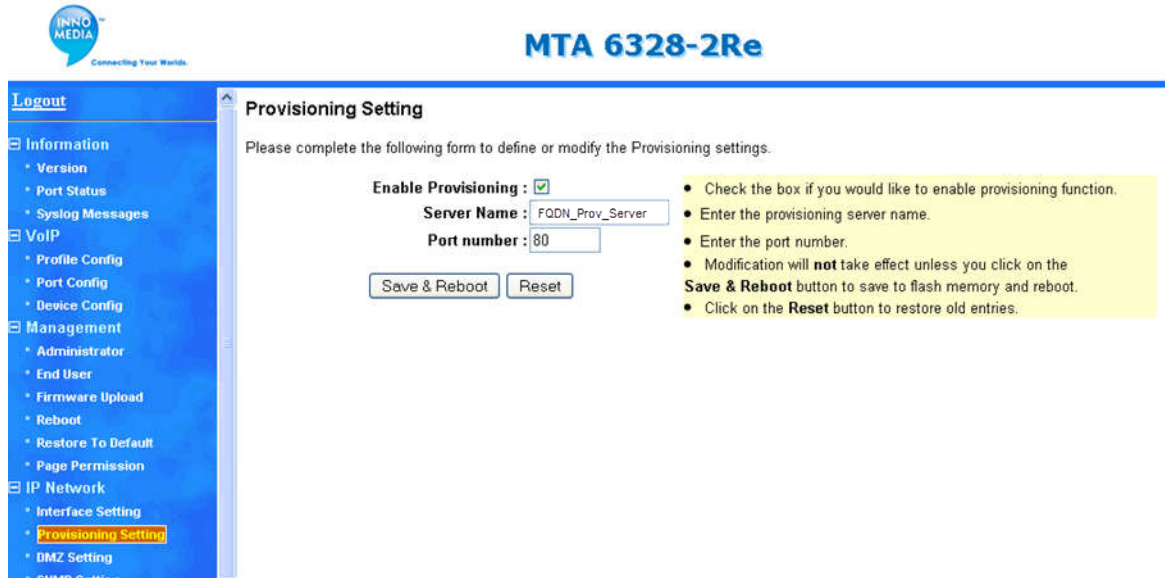
Auto Duplex  Full Duplex  Half Duplex



## 2.5 Enabling Provisioning

This screen allows to enable and configure basic provisioning parameters.

Note: Details for Provisioning - Provisioning method selection, encryption type etc must be done from CLI.  
Please refer to the MTA6328 Admin Guide document for detailed description.



## 3 Telnet Console

Access the MTA CLI console via Telnet requires the input the same ID and Password as those of the WEB console.

Command **H** displays all available commands.View Version Info

Command: V <Cr>

```
V
The Image Version is: 4.2.68
Control Code Version = 4.2.68 6328-2Re Sat Oct 16 22:41:48 2010
DSP Code Version = 2.5.22 10/16 18:56 2010
BBS Version=7.3.38
SIP Stack Version=2.15.1
Hardware version = 10.0.0.6
Layout Version = A4-2
System Up Time:00 hours, 00 minutes, 57 seconds ago
```



### 3.1 Basic Device & SIP Configuration Info

Check the current IP, Provisioning Server, SIP Proxy and Domain information.

Command: Cf <Cr>

```
Cf
Your current configuration:
  Your MTA Name= 6328-2Re
  System Enable Provisioning Process = TRUE;
  SYSLOG Server = 255.255.255.255;
  SIP Proxy Server:
    (Profile 1) sbc.abc.net
  Current Local SIP Signaling Port:
    (Profile 1) 5060
  SIP Domain:
    (Profile 1) metaswitch.abc.net
  STUN Disabled
  CODECs
    channel 1: ptime:40 ms; G729 G729A
    channel 2: ptime:40 ms; G729 G729A
  RTP port: 10000
  Current Silence Suppression settings:
    (Channel 1) Yes, send RFC3389 SID frame:No
    (Channel 2) Yes, send RFC3389 SID frame:No
  Current Echo Cancellation Settings:
    (Channel 1) Yes
    (Channel 2) Yes
  DSCP for signal: 160,0xa0
  DSCP for voice: 0,0x0
  DSCP for other: 0,0x0
  DSCP for LAN traffic: 0,0x0
  Prov_Server_Name: device.abc.com
  DHCP Check Option 43 disable
  Ether Address      = 00:10:99:02:8b:92;
  You are using DHCP.
  Local IP           = 172.16.0.135;
  Local IP Mask      = 255.255.0.0;
  Local Default GW IP = 172.16.0.1;
  Local Default GW Mask = 255.255.0.0;
  Primary Domain Name Server = 4.2.2.1;
  Secondary Domain Name Server = 172.16.0.2;
  System Up Time:00 hours, 00 minutes, 51 seconds ago
```

### 4. Ping from CLI

From the CLI you can ping to see if your network connection is up and able to get to a remote IP. You can ping by Domain or IP.





```
ping www.google.com <Cr>
or
ping 74.125.224.52 <Cr>
```

## 5. Enable and Disable Debug Information

### To capture debug information.

Command sequence:

```
D1 <Cr> (to enable debug)
Tl <Cr> (l is lower case L)
```

```
D1
Debugging is enabled.
Tl - (L lower Case L)
Please enter the level you want to trace: 50
Traces less than or equal to trace level 50 will be printed out.
```

```
D0 <Cr> (D Zero, to disable debug)
```

---

Note: Tl level 50 for signaling; 80 for signaling and dsp; 101 for provisioning

---

## 3.2 Enable Debug Trace to be sent to Syslog Server

Command: Mq <Cr>

Enter the syslog server IP address.

Note that if there is no syslog server configured, the MTA display the messages to the console screen.

## 3.3 Reboot the MTA system

Command: R

## 3.4 Force SIP Account Registration

Command: Sn <Cr>

```
Sn
1 - sign on channel 1
2 - sign on channel 2
all - sign on ALL channels
```



Type 1, or 2, or all

### 3.5 Enable EMS

Command: Cx <Cr>

```
EMS Config
Config EMS Setting
p: Display Current Setting
1: Set EMS Enable/Disable
2: Set EMS Device Type
3: Set EMS Region ID
4: Set EMS Server
5: Set EMS Local Port
6: Set EMS Heartbeat type
7: Set EMS Heartbeat Interval
8: Set EMS Encryption Key
w: Write update to Flash
q: Exit EMS config
```

### 3.6 Enable End of Call Statistics

Command: Cg <Cr>

```
RTCP-XR is Disabled
Please enter "Y" to Enable it or "Q" to quit: y
```

### 3.7 Show All CLI commands

Command: H <Cr>

```
C: Configuration: Operation Database
Cd: Configuring DigitMap
Cj: Configuring Jitter Buffer Size
Ct: Configure FXS Setting Parameters
Cs: Configuring SIP Settings
Cu: Configuring User Account Database
Cv: Configure VLAN Setting
Cr: Enable/Disable Polarity Reversal
C3: Enable/Disable Call Features
Cx: Configuring EMS
Cp: Configuring end dial digit(#)
Cf: Display the Current IP Information
Ci: Configure the IP Information
Cw: Change Admin name and Password
```



Ce: Change User name and password  
C1: Config Dynamic codec payload type  
C2: Config 2833  
Cg: Config RTCP-XR

E: Exiting and Logout  
G: Voice Volume Control  
Ga: Set Voice Volume for Each Channel  
H: Help Menu  
I: Information About this System  
Id: Display DigitMap  
Ig: Display Voice Volume Level  
Ij: Display Parameters for Jitter Buffer Operation  
Is: Display the State of All Ports/Lines  
Ix: Display network connection and UA registration status  
Ik: Display EMS parameters  
If: Display Fax parameters  
It: Display FXS Setting Parameters  
It: (with D1) Show and Save Trace log setting

M: Miscellaneous  
Me:  
    1. SW\_UPGRADE disable  
    2. Enable/Disabled Provisioning  
    3. DHCP Check Option 43 disable  
    4. SNMP mibs  
    5. Credential on re-registration enable

Mb: Configure OSI Timer  
Mf: Configure Hook Flash Timer  
Mn: Selectable Configuration of IP Elements  
Mp: Configure Phone lines  
Mh: Show Syslog  
Mi: Configure SNTP server  
Mq: Configure Syslog server  
Mm: Configure Remote Services  
Mw: Configure Networking Mode  
Mt: Config Hot phone feature  
Ms: Config STUN feature  
Md: Set Time and Date

N: Configure Router function (not all option available in switch mode)

P: Provisioning  
Pv: Configure Provisioning setting  
Pr: Trigger Provisioning

S: Force Register or De-register Channels  
    Sn: Force Sign On Channels



```
Sf: Force Sign Off Channels
```

```
D1: Enable debug
```

```
D0: Disable debug
```

```
T: Debug Trace
```

```
Te: enable trace
```

```
Tl: set debug level
```

```
Tc: set trace channel
```

```
Tg: set trace group
```

```
Tv: set trace verbose
```

```
Ty: set syslog trace
```

```
Tw: disable watchdog
```

```
Tm: show system memory
```

```
Ts: selected trace level
```

```
Ti: current time
```

```
Bs: Battery status(if exist)
```

## 4 Restore to Factory Default

### 4.1 CLI

---

**Note:** If you restore to factory settings, all but provisioning settings will be reset to factory default settings

---

You can restore the unit back to Factory Defaults by doing the following from the Command Line Interface

Command Sequence:

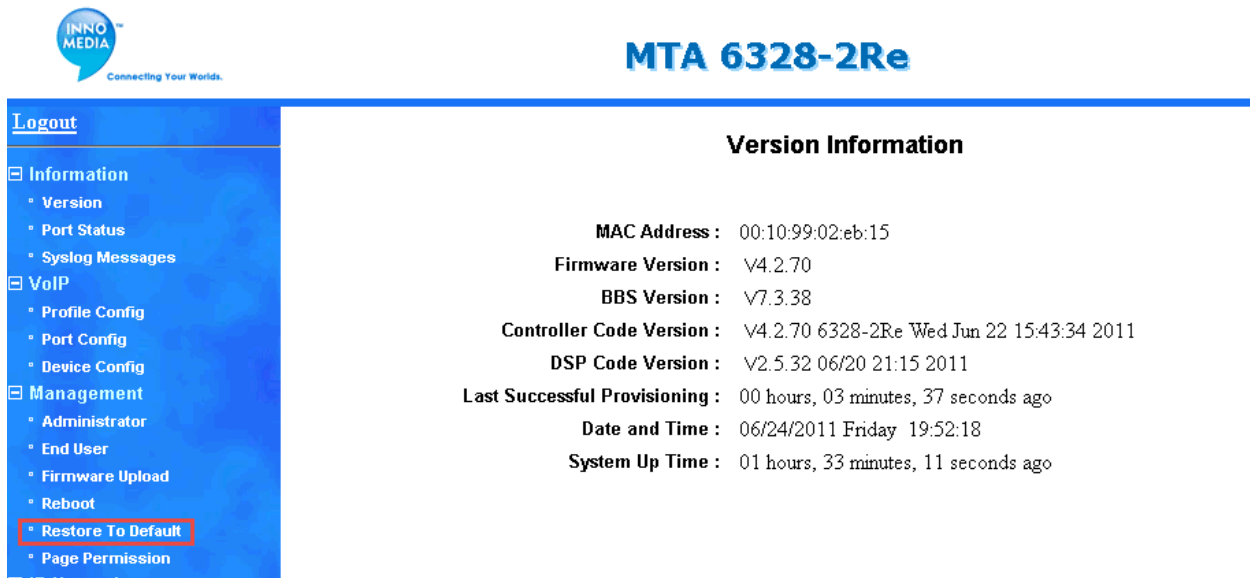
```
D1 <Cr>
```

```
T$ <Cr>
```

### 4.2 Web GUI

Navigate to “Restore to Default” under Management category.





### 4.3 Restore Button on back of MTA

If the unit is not accessible via the LAN port, then you can Press the RSTR button using a Paper Clip in the hole on the back of the MTA. Hold for 5 seconds, and then the unit should reboot in 20 seconds.

After this process is done, **the provisioning related parameters remain intact and all other parameters are restored to the default values.**



## 5 Appendix B. Digitmap Usage Rules

Digit map example:

```
[2-9]11|[1-9]XXX.T|0.T|[2-9]XXXXXX.T|[2-9]XXXXXX.#|1[2-9]XXXXXXXX|011X.T|011X.#|*XX.T|*61|*62|*65|*67|*69|*78|*79|***1|101xxxx
```

The “T” here is critical timeout value.

1. Digit maps are processed left to right so generally the more specific matches are positioned earlier in the map and the more general matches are at the end of the digit map.
2. X is any digit from 0-9
3. [M-N] specifies any digit from M to N.
4. Each rule is separated by the vertical bar “|”.
5. The ‘.’ means it will match zero or more occurrences of the preceding construct, which in this case is any digit. A dial string that matches will be dialed after a time out of T seconds after the last digit is entered, “011X.T”. This is the typical international long distance dialing string used in the US. An example match is: “0114512345678”.
6. 0.T: This will match the digit 0 and, after a time-out of T seconds (defined in the end digit Time-out).
7. The “T” is what specifies that a time-out will be used to determine when to send the digits. (telnet command: Cs. Provisioning tag: Digitmap\_Critical\_Timeout)

