

IPitomy Tools

Description

IPitomy Tools provide two powerful utilities:

- Memory Test
- IP PBX Restore for IP1100 and IP1200

In memory test, the utility will run a diagnostic for read/write integrity. This is useful to detect issues not resolved by any other means.

PBX Restore is a last-resort restoration of the IP PBX OS (Operating System). In the event a catastrophic situation exists and the IP PBX cannot be recovered by usual means, the PBX Restore utility will reload all IP PBX operating files to a preset factory condition.



Use of IP PBX Restore requires that all licensing be restored in a separate procedure! This is accomplished by contacting Technical Support and providing all system credentials for reissuance of licensing per the system's previous license status.

Procedure—Safe Power-Down

All IPitomy IP PBX's are equipped with a safe power-down button located at the front.

Boot-Up / Safe Power-Down Switch				
IP1100	IP1200	IP2000/5000		
		Power		

- 1. If your system is powered, press and release (immediately) the raised side of this switch. (This is initiate the safe power-down operation.)
- 2. Wait approximately 3-5 minutes. This should be enough time for the PBX Running LED to go out.

If the lamp is off your PBX has shut down safely, Skip Step 3 and go to **Procedure—Connecting the Tools USB Stick**

If not, your PBX is non-responsive and must be forced off which may corrupt the database. Perform the next step before continuing.

 Press and hold the Boot-Up/Power-Down Switch until the LED goes off. Go to Procedure—Connecting the Tools USB Stick



IPitomy Tools

Procedure—Connecting the Tools USB Stick

The IPitomy Tools program is delivered on an USB Stick that is inserted into an available USB slot on the IPitomy IP PBX. Some system's Bios' will recognize this USB and boot without any special setup, however we have experienced differences in various Bios' and found that some systems must be directed to boot from the USB drive stick by adjusting additional Bios settings. (The IP1200 is found to have required this procedure.)

- 1. Determine if your system will require Bios adjustment...
- 2. Insert the USB Stick with IPitomy Tools into an available USB slot on IP PBX.
- 3. Power-Up the PBX; press and release (immediately) the Safe Power-Down/Boot momentary toggle switch on the front of the IP PBX.

Boot-Up / Safe Power-Down Switch				
IP1100	IP1200	IP2000/5000		
		POWER		

- 4. If your PBX boots to IPitomy Tools, go to Procedure-Using IPitomy Tools
- If not (IP1200's are in this group), power the system down again and go to Procedure—Bios Setup.

Procedure—Bios Setup

If you're here, you're PBX didn't boot on the USB Stick. In this case you must setup the bios to boot from the USB drive by activating an additional bios parameter.

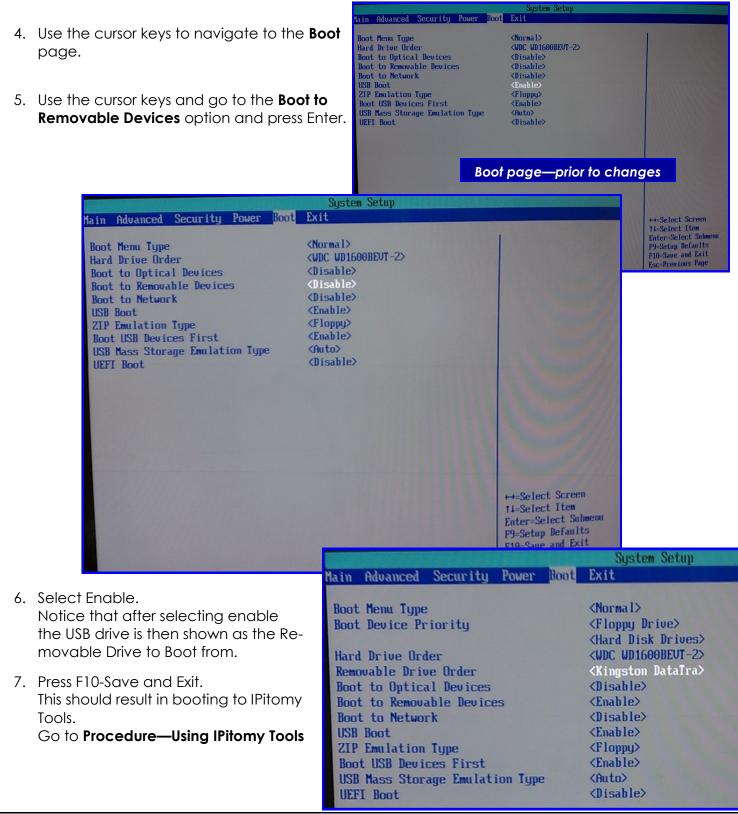
- 1. Connect a keyboard and monitor to the IP PBX at the connectors shown...
- Power up the PBX and immediately start pressing the F2 key repeatedly every 1 (one) second. This should activate the Bios Setup utility of the IP PBX.



3. When the Bios Setup (System Setup) screen is open the options for selection of the devices from which boot-up can be set are shown.



IPitomy Tools





IPitomy Tools

Procedure—Using IPitomy Tools

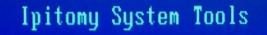
If you haven't already connected a keyboard and monitor-do so now.

The IPitomy Tools page is simple to navigate, there are three choices:

- Memory Test
- Reinstall (Restore IP PBX)
- Boot PBX



If you run memory test, you're likely speaking with technical support. In that case, they will advise you about results. You may run memory test without assistance however and discover its benefits. This publication isn't going further on this topic at this time.



Memory test [memtest] Reinstall via USB [1100/1200] Boot PBX [Automatic boot option]

Press [Tab] to edit options



IPitomy Tools

Procedure—Reinstallation/Restore IP PBX

The recovering a PBX is to revive the original configuration at the time the PBX was purchased.

- 1. From the listed selections choose the Reinstall via USB velocities option.
- 2. The Welcome to CentOS screen will appear.
- 3. No interaction is required for several minutes. BE PA-TIENT.
- 4. The following screens will be seen as the commandline items are implemented and the PBX OS is restored.



CentOS installation starts	Running anaconda, the CentOS system installer - please wait Probing for video card: Intel Corporation Unknown device a001 Running pre-install scripts	
	Retrieving installation information	
	In progress Completed Completed	
	Checking dependencies in packages selected for installation	
	In progress Bad kmod package 'kernel-module-zaptel - 1.4.11-1_2.6.18_53.el 5.rf.i386' does not require a kernel	
	Bad kmod package 'kernel-module-zaptel - 1.4.12.9-2_2.6.18_164.15.1.el5.rf.i386' does not require a kernel	
Various formatting processes	Formatting / file system	
	In progress	
	Formatting /recovery file system	
	In progress	
	Formatting /boot file system	
	In progress	
	Starting install process. This may take several minutes	



IPitomy Tools

When all the various files are loaded and installed, the IP PBX will boot and the command line login will be presented.

- 1. Press Ctrl + Shift + F7
- 2. This enters into the networking configuration page.

3. Use the options available (primarily Option "2" for IP Address) and set the network interface for use with the installed network and the IPitomy web-page interface.

- 4. The Default Gateway and DNS should be set to the IP Address of the network router.
- 5. The Subnet Mask should be set to match that of the network router (typically 255.255.255.0)
- 6. Press "S" to save and update this data.

CentOS release 5 (Final) Kernel 2.6.18-164.15.1.el5 on an i686

ipitomypbx login:

IPitomy N	etworking - TCP/IP	Settings	
	IP Address :		
	Mask :	255.255.255.0	
		00:27:0E:0C:CF:0F	
DATABASE :			
	NAME	VALUE	
[]	l] Network Type	Static IP	
	2] IP Address		
	3] Subnet Mask		
	4] Default Gateway		
[5] Static DNS	192.168.1.1	
	6] Static DNS 2	19011001111	
	7] Static DNS 3		
		Other Menus	
C	R] Refresh View		
		[F] Fix Database	
] [D] Default Settings		
[S] Save & Update	[H] Host Access	
- to	SELECT OPTION:		

At this point the Keyboard and monitor can be disconnected from the IP PBX and Web-page access to the IP PBX should be possible.

If there was a database previously saved—that may now be restored. If not, all PBX configuration programming must be re-entered.

Licensing: Once access to the PBX via the web-interface is active navigate to PBX Setup/ Services/License File and load the file obtained from Technical Support (941-306-2200) to restore this PBX's license status.