•	•		
	Personalize Internet (s O Telephony	 Port Forwarding Local Address Control Panel
1	Account	Displays special dialing numbers for your phone servic	e.
	Ring Tone	Line 1 Emergency Numbers; 911	Line 2 Emergency Numbers: 911
	Caller ID	Line 1 Blind Call Transfer Number: #90 Line 1 Consultation Call Transfer: #91	Line 2 Blind Call Transfer Number: #90 Line 2 Consultation Call Transfer: #91
	Call Forwarding	Line 1 Call Forwarding Activate: *72 Line 1 Call Forwarding Deactivate: *73	Line 2 Call Forwarding Activate: *72 Line 2 Call Forwarding Deactivate: *73
	Special Numbers	Line 1 Call Forwarding Busy Activate: *74 Line 1 Call Forwarding No Answer Activate: *75 Line 1 Automatic Callback Activate: *69 Line 1 Do Not Disturb Activate: *78 Line 1 Call Waiting Toggle: *70	Line 2 Call Forwarding Busy Activate: *74 Line 2 Call Forwarding No Answer Activate: *75 Line 2 Automatic Callback Activate: *69 Line 2 Do Not Disturb Activate: *78 Line 2 Call Waiting Toggle: *70
、 宗	Wizard	Refresh Auto Ref	resh

8.LAN (Local Address) Configuration

If DHCP is enabled on all of the computers in your home network (LAN), you should not need to change any of the default LAN settings.

Unless you have sufficient networking knowledge, we recommend not changing any LAN settings.

If you need to verify LAN Configuration, you can access this information by performing the following:

- 1 Click the DHCP Server tab on the Home page.
- 2 Select the one you want to configure from the four: DHCP Server, Lease Status and Lease Reservation.

Personalize 🔘		Port Forwarding
Internet O		Local Address
Status	• • Telephony	Control Panel
	Enables Dynamic Host Configuration Protocol (DHCP) Server functionality on the LAI dynamically assign lease IP addresses to clients that connect to it from the local net:	N, allowing the router to work.
DHCP Server	Enable DHCP Server 🗹	
	DHCP Server IP Address: 192 . 168 . 15 . 1	
Lease Status	DHCP Starting IP Address: 192 . 168 . 15 . 2	
Lease status	DHCP Ending IP Address: 192 . 168 . 15 . 254	
	DHCP Lease Time: 1 hour 0 minute 0 sec	cond

DHCP Server

This configuration enables Dynamic Host Configuration Protocol (DHCP) server functionality on the LAN, allowing the router to dynamically assign lease IP addresses to clients that connect to it from the local network.

Field or Button	Description
Enable DHCP Server	If selected, the DHCP server on the gateway assigns IP addresses to the computers and other hosts on your network, if they have DHCP enabled. By default, the gateway DHCP server is enabled. If there is another DHCP server running on your network (on another router), you must disable one of the DHCP servers. If you do not select, you must carefully configure the IP address, Subnet Mask, and DNS settings of every host on your network. Do not assign the same IP address to more than one host. Your gateway must be on the same subnet as the other hosts.
DHCP Server IP Address	Sets your DHCP Server IP address in dotted-decimal format. We recommend not changing the default 192.168.15.1
DHCP Starting IP Address	Sets the first IP address assigned by the DHCP server, in dotted-decimal format. It must be greater than the IP address value of the gateway. For example, if the IP address of the gateway is 192.168.15.1 (default), the starting IP address must be 192.168.15.2 (or higher).
DHCP Ending IP Address	Sets the final IP address assigned by the DHCP server, in dotted-decimal format. It cannot exceed the subnet limit of 254. For example, the default is 192.168.15.254. If the DHCP server runs out of DHCP addresses, users cannot access network resources. If this happens, increase the End IP (to the limit of 254) or reduce the Lease Time.
DHCP Lease Time	Sets the time, in seconds, that a network computer remains connected to the gateway using its current assigned IP address. At the end of this time, the DHCP server renews the lease or assigns the computer a new IP address. The default is 3600 seconds (1 hour). The maximum is 999999 seconds (about 278 hours).

Lease Status

This section shows the active DHCP lease since the last reboot. For each active lease, the client host name, MAC address, IP address and remaining lease dureation are shown.

Personalize • Internet •			Port Forwarding Local Address
Status O	0	Telephony	Control Panel
DHCP Server	Shows the active DHCP leases since the address, and remaining lease duration a	ne last reboot. For each active le are shown. No DHCP Clients Availabl	ease, the client host name, MAC address, IP
Lease Status			
Lease Reservation			

Lease Reservation

It manages lesae reservation to allow the same client gets the same IP address at all time. Give the client a Host Name, register its MAC address and reserve a set of fixed IP address for this client. Click **Apply** to save the setting and this client will be assigned the reserved IP address next time.

Personalize •	6 11			1000	Port FoLocal A	rwarding ddress
Status	0	0	Telephony		O Control P	anel
	Manages lease ri	eservation to allow th	ne same client gets the same IP	address at all tin	nes.	
DUCD Conver	Select Client	Host Name	MAC Address		IP Address	Ens
DHCP Server	Client				1 1001000	
DHCP Server					T TRACOS	- Crite
Lease Status						
Lease Status						
Lease Status						

9.Port Forwarding

This section contains two parts: Basic and Forwarding. Port forwarding is the forwarding of network ports from one network device to another. This is commonly done using a NAT (network address translation) enabled router or server and another computer within the network.

Basic

The UPnP Internet Gateway Device (IGD) is an "edge" interconnect device between a residential Local Area Network (LAN) and the Wide Area Network (WAN). It provides connectivity to the Internet with automatic and seamless sharing and configuration of Internet data access among networked devices in the residential network.

UPnP functionality also provides user with:

- 1 Multi-player games
- 2 Real time communications (such as MSN Messenger)
- 3 Peer-to-peer services

You have to enable Universal Plug and Play (UPnP) Internet Gateway Device (IGD) profile to allow certain Windows applications set up the port forwarding rule dynamically when NAT is enabled on this device.

Enable a specific LAN client allows you to accept inbound connections which do not match with any forwarding rules and triggering rules. This client sometimes is referred as **DMZ** (Demillitarized Zone).

Follow the steps below to set up the UPnP.

1. From the Basic web page, click **Add LAN Client**. The DMZ cannot be enabled until the LAN client is added.

Personalize				Port Forwardin Local Address
Statu	15 0	• Telephony		Control Panel
Basic	Enables Universal Plu to setup the port forw connections which do DMZ (Demilitarized Zo	g and Play (UPnP) Internet Gateway De arding rule dynamically on this device. not match with any forwarding rules a ne).	vice (IGD) profile to allow Enable a specific LAN clie Ind triggering rules. This c	certain Windows application nt to accept inbound lient sometimes is referred a
Forwarding		Enable UPnP IGD 🗹 DMZ IP Address: 192.1	68 . 15 . 3	

2. Click **Apply** to save the setting.

Forwarding

This function is to forward inbound connections destined to ports on the BLADE WiMAX interface, to a specific client on your local network. You can specify a corresponding destination LAN port ranges as well. Port forwards can be used to support a web server, or other special service, offered on your local network.

Follow the steps below to configure the Forwarding.

1. Fill in the Service name and selecthe protocol type. There are three protocol types: TCP, UDP, TCP/UDP. Select the one that best suits your requirement.

			1/		
Personalize • Internet •	6			100	Port ForwardingLocal Address
Status (0	O Teleph	ony	c) Control Panel
Basic	Forwards inbound c You can specify a c server, or other spe	onnections destined to po orresponding destination L cial service, offered on yo	rts on the WIMAX inf "AN port range as w ur local network. "N Port WAN Port	terface, to a specific cl vell. Port forwards can	ient on your local network. be used to support a web
Forwarding			Start End		Start End
Wizard					Undo Apply

2. Continue fill in the rest boxes. The **WAN Port Start** and **WAN Port End** refer to the range of the BLADE WAN port. LAN IP refers to the local PC's IP address. The **LAN Port Start** and **LAN Port End** refer to the range of the BLADE LAN port, and they are registered for the WAN PCs to recognize.

Personalize •					1		• Port Forwarding
Internet O	2				1	0	Local Address
Status (•) Telephony			Control Panel
Basic	Forward You car server, Delete	ds inbound co a specify a co or other spec Service	onnections des orresponding d cial service, off Protocol	tined to ports on the estination LAN por ered on your local WAN Port	ne WMAX in t range as v network. WAN Port	terface, to a specif vell. Port forwards LAN IP	fic client on your local network. can be used to support a web
Forwarding		web	ТСР	• 21		192 . 168 . 15	. 3 40 End
🔆 Wizard							Undo Apply

3. Click **Apply** to save the setting.

10. Control Panel

Control panel has three sections: Software, Certificate, and URL Filter. It manages the firmware upgrade and device software, verifues the certificate for network connection, and enables the URL filter.

Software

You can upgrade the firmware by clicking the **Choose** button and find the one you want to upgrade, then click **Upgrade**. The Current Software Version shows the software that is being run on your BLADE. The block below the current software version is for you to install new softwares available from external servers. Click **View** to find the available ones and click **Install** to make use of them. If you find the installed software not necessary, simply click **Uninstall** on the bottom box to remove them.

Personalize (Internet	Correct Constraints of the	vardin dress
Stat	tus O O Telephony O Control Par	nel
Software	Manages the device software. Choose Browse button to locate the software package on your computer. Tupgrade button to upgrade the software to the device. Device Software Upgrade Path: Choose Upgrade	l'hen clic
Certificate	Current Software Version: 02.05.10.04.02 (NA)	
Certificate System	Current Software Version: 02.05.10.04.02 (NA) Available Software Packages View Install Ho Available Software Packages Provided.	

Certificate

This page manages the certificates stored on this BLADE. Click **Choose** button to locate the certificate file in your computer and click Import button to add it the the device. If you want to remove an existing certificate, click **Delete** to remove it. If you check the **Enable CRL Retrieva**l button, the BLADE will connect automatically to external server and verify if the certificate is valid. It is recommended to leave it as default value.

Personalize • Internet •	, (6) :!			1	• Port • Loca	Forwardin al Address
Status	0	O Telephony			O Contro	ol Panel
Software	Manages the o Then click Imp click Remove I	certificates stored on this device. Click Brow ort button to add the chosen certificate to th button to delete them.	wse button to he device. Se	locate the cert lect the certific	ificate file on yo ates you want f	our computer. to remove and
Software Certificate	Manages the o Then click Imp click Remove I Installe	certificates stored on this device. Click Brov ort button to add the chosen certificate to th button to delete them. Certificate Import Path: Enable CRL Retrieval:	wse button to he device. Se	e locate the cert elect the certific Cho	ificate file on yo ates you want f	our computer. to remove and port
Software Certificate	Manages the c Then click Imp click Remove I Installe Trusted	certificates stored on this device. Click Brov ort button to add the chosen certificate to th button to delete them. Certificate Import Path: Enable CRL Retrieval: d Certificates Serial Number	wse button to he device. Se	locate the certific	ificate file on yo ates you want t ose Im Expires On	pour computer. to remove and port
Software Certificate System	Manages the d Then click Imp click Remove I Installe Trusted	certificates stored on this device. Click Brov ort button to add the chosen certificate to th button to delete them. Certificate Import Path: Enable CRL Retrieval: d Certificates Serial Number CCECA8D57C4B814F	wse button to he device. Se Subject Motorola	locate the certific elect the certific Cho Issued By Motorola	ificate file on yo ates you want f ose Im Expires On Oct 17, 2007	port computer.

System

This page controls the user interface configuration. You may change the language used in user interface and the auto refresh interval as shown below.

Personalize Internet		Port Forwarding Local Address
Status O	• Telephony	O Control Panel
Software Manages U	Jser Interface Configurations.	alish ▼
Certificate	Auto Refresh Interval: 10	Second
System		

About

As you can see from the sample web page below, this button shows basic product information of the RSU. You may find model ID, software/hardware version, etc.



11.Troubleshooting

LEDs are Off

- Check that the AC power adapter is properly plugged into the electrical outlet and into the Gateway.
- Check that the electrical outlet is working.

A Computer Cannot Send or Receive Data

Check that the Ethernet cable is properly connected to the Gateway unit and the computer.

Cannot Connect to the Internet

• If you cannot connect to the Internet for more than 5 minutes:

A: re-run the Setup Wizard

B: if the Setup Wizard does not help, then reset the Gateway using the Apply button. For unit reset instructions see Top Panel.

C: contact your service provider if you still cannot connect to the internet after performing the previous tasks.

12.Configuring TCP/IP

This chapter is needed for setup procedures. Refer to the section titled "Basic Configuration" on Chapter 3 for more information regarding this chapter.

All client computers on your network must be configured for TCP/IP (the protocol that controls communication among computers). Perform one of:

- Configuring TCP/IP in Windows XP
- Configuring TCP/IP in Windows Vista
- Follow the instructions in your Macintosh or UNIX user manual

After configuring TCP/IP, on all computers, perform one of the following to verify its IP address:

- Verifying the IP Address in Windows XP
- Verifying the IP Address in Windows Vista

Note: For operating systems other than Windows:

• Follow the instructions in your Macintosh or UNIX user manual

Configuring TCP/IP in Windows XP

1. On the Windows desktop, click **Start** to display the Start window:



2. Click **Control Panel** to display the Control Panel window. The display varies, depending on your Windows XP view options. If the display is a Category view as shown below, continue with Step 3. Otherwise, skip to Step 5.



- 3 Click **Network and Internet Connections** to display the Network and Internet Connections window:
- 4 Click Network Connections.



5 If a classic view similar to below is displayed, double-click **Network Connections** to display the LAN or High-speed Internet connections.

Control Panel	٢	ل Accessibility Options	Rdd Hardware	Add or Remov	Administrative Tools	Date and Time	S Display	Folder Options
See Also	۲	Fonts	Game Controllers	Internet Options	达 Keyboard	Mouse	Network Connections	Phone and Modem
Help and Support		Power Options	Printers and	Regional and	Scanners and	Scheduled	Sounds and	ያ Speech
		System	Taskbar and Start Menu	User Accounts	VMware Tools	18515	Addio Devices	
			Local Area Enabled VMware Ac	Connection celerated AM	1D PCN			

6 Right-click the **Local Area Connection**. If more than one connection is displayed, be sure to select the one for your network interface.

7 Select **Properties** from the pop-up menu to display the Local Area.



8 On the Local Area Connection Properties window, select **Internet Protocol (TCP/IP)** if it is not selected.

- Local Area Connection Properties	×
General Authentication Advanced	
Connect using:	
Wware Accelerated AMD PCNet Adapter	
Configure	
Client for Microsoft Networks Client for Microsoft Networks	
Install Uninstall Properties	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	
Show icon in notification area when connected	
OK Cancel	5

9 Click **Properties** to display the Internet Protocol (TCP/IP) Properties window:

🕹 Local Area Connection Properties 🛛 🔹 💽
General Authentication Advanced
Connect using:
Wware Accelerated AMD PCNet Adapter
Configure This connection uses the following items:
 ✓ Isolient for Microsoft Networks ✓ Internet Protocol (TCP/IP)
Install Uninstall Properties
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected
OK Cancel

- 10 Be sure Obtain IP address automatically and Obtain DNS server address automatically are selected.
- 11 Click **OK** to close the TCP/IP Properties window.

Click **OK** to close the TCP/IP Properties window. When you complete the TCP/IP configuration, return to the Setup procedure "User Interface Overview" on Chapter 3.

Configuring TCP/IP in Windows Vista

1. On the Windows desktop, click **Windows Logo** on the left bottom cornor to display the Start window. Then click **Network**.



2. When Network windows appears, click **Network and Sharing Center** from the action bar on the top of the window.

Organize 👻 🚦	letwork E Views	•	etwork and Shari	ng Center 🔒	Add a printer	v ≁ ≁y Tri Addav	<i>Search</i> vireless device
Favorite Links Documents Fictures Music More >>		Name	Category ALEX-PC: Peggy:	Workgroup	Network lo	cation PC	
Folders Public Computer Network	-						

3 .After you click **Network and Sharing Center**, the window below appears. Follow by clicking **Manage Network Connection** from the task bar on the left.

Network and Ir	nternet 🕨 Network and Sharing Cent	er 👻 🔩 Search	
Tasks View computers and devices Connect to a network Manage wireless networks Set up a semaction or networ Manage network connections Diagnose and repair	Network and Sharing Co ALEX-PC (This computer)	Network 3	View full map — Office of the full map Internet Customize
	Access Connection 33 Sharing and Discovery	Local and Internet Local Area Connection	View status
See also	Network discovery File sharing Public folder sharing Printer sharing	 On On On Off (no printers installed) 	 > > > > >
Bluetooth Devices Infrared Internet Options Windows Firewall	Password protected sharing Media sharing Show me all the files and folde Show me all the shared netwo	Off Off I am sharing rk folders on this computer	

4. The network connections appear. Drag your mouse to the **Local Area Connection** and right click the mouse button. A series of tasks display. Click **Properties**.



5. A series of protocols appear. Among them, check the Internet Protocol Version 4 (TCP/IPv4) and click Properties.

	F + Interior +	
0	🕥 🗣 « Network and Internet 🕨 Network Connections 🕨	
N	Organize * SE Views * Y Dicable this network device	Diagnose this ork Category
	Networking Sharing Connect using: Intel(R) PRO/1000 PL Network Connection	nnection nticate ; 3945A
	Configure This connection uses the following items: Client for Microsoft Networks QoS Packet Scheduler File and Printer Sharing for Microsoft Networks Intermet Protocol Version 6 (TCP/IPv6) Intermet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder	
	Install Uninstall Properties Description Allows your computer to access resources on a Microsoft network.	
	OK Cancel	

6. TCP/IPv4 Properties appears. Check **Obtain an IP address automatically**, and **Obtain DNS server address automatically**. Click **OK** to save the settings.

Netw	vorking Sharing				ork C
0-					Inner
	internet Protocol Version 4 (TCP/IPv	4) Propertie	s		U.S.
L	General Alternate Configuration				
	Obtain an IP address automatic	cally			
	IP address:	1	эс. Г		
Ľ	Subnet mask:		+	+	
	Default gateway:		1		
		tomatically	>		
	Optain DNS server address aut	1.1			43
	 Use the following DNS server a 	ddresses:			
	 Use the following DNS server a Preferred DNS server: 	ddresses:			- 11
	 Use the following DNS server address automotion Use the following DNS server a Preferred DNS server: Alternate DNS server: 	ddresses:		•	

7. The settings are done. Click \mathbf{OK} to exit.

Lonnect using:		
Intel(R) PRO/1	1000 PL Network Conne	ction
		Configure
This connection uses	the following items:	21.
Client for Mic	crosoft Networks	
QoS Packet	Scheduler	
File and Print	ter Sharing for Microsoft	Networks
Internet Prot	ocol Version 6 (TCP/IP)	(4)
✓ ▲ Link-Layer T	opology Discovery Map	per I/O Driver
	opology Discovery Res	ponder
Unk-Layer I		
Install	Uninstall	Properties
Install	Uninstall	Properties
Install Description Transmission Contr	Uninstall	Properties
Install Description Transmission Contr wide area network across diverse inte	Uninstall ol Protocol/Internet Pro protocol that provides of reconnected networks	Properties tocol. The default

13.Important Safety and Legal Information

Your Motorola WiMAX Wireless Broadband BLADE is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to RF electromagnetic energy.

This Product complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANSI)/ Institute of Electrical and Electronic Engineers (IEEE) C95 1-2005
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radiofrequency electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard, 2003
- ANATEL ANNEX to Resolution No. 303 of July 2, 2002 "Regulation of Limitation of Exposure to Electrical, Magnetic, and Electromagnetic Fields in the Radio Frequency Range Between 9 kHz and 300 GHz" and "Attachment to Resolution #303 from July 2, 2002"

RF Exposure Compliance and Guidelines Operating

Instructions

To comply with FCC RF energy exposure requirements, this Gateway desktop transmitter should be operated at a minimum separation distance of 20 cm from all persons.

For additional information on exposure requirements or other training information, visit http://www.motorola.com/rfhealth.

FCC Regulatory Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device puBLADEant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Gateway desktop transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada Statement

This device complies with RSS-193 of the Industry Canada Rules. Operation is subject to the following two conditions:

this device may not cause interference and

this device must accept any interference, including interference that may cause undesired operation of the device

This device has been designed to operate with an antenna having a maximum gain of 7 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p) is not more than that permitted for successful communications.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IC Radiation Exposure Statement:

IMPORTANT NOTE:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

14.Caring for the Environment

The following information is provided to enable regulatory compliance with the European Union (EU) Directive 2002/96/EC Waste Electrical and Electronic Equipment (WEEE) when using Motorola Networks equipment in EU countries.

Disposal of Motorola Equipment in EU Countries

This product is compliant with the requirements of the European Union Restriction of Hazardous Substances (EU RoHS) directive.

Please do not dispose of Motorola Networks equipment in landfill sites.

In the EU, Motorola Networks in conjunction with a recycling partner will ensure that equipment is collected and recycled according to the requirements of EU environmental law.

Disposal of Motorola Networks Equipment in Non-EU countries

In non-EU countries, dispose of Motorola Networks equipment in accordance with national and regional regulations.

15.CMM Disclosure

The China Management Methods (CMM) Disclosure Table is intended only to communicate compliance with China requirements; it is not intended to communicate compliance with EU RoHS or any other environmental requirements.

CMM Disclosure Information

AT 14 14 24-			有毒	有害物质或元	己素	
部件名称	铅	¥	镪	六价铬	多溴联苯	多溴二苯醚
	(Pb)	(Hg)	(Cd)	(Cr ⁶⁺)	(PBB)	(PBDE)
金属部件	×	0	×	×	0	0
电路模块	×	0	×	×	0	0
电缆及电缆组件	×	0	×	×	0	0
塑料和聚合物部件	0	0	0	0	0	×
 O: 表示该有毒有害物质 X: 表示该有毒有害物质 	贡在该部件/J 貢至少在该?	所有均质材 8件的某一步	科中的含量均7 9质材料中的{	至 SJ/T11363-20 含量超出 SJ/T11	06 标准规定的限 363-2006 标准规	量要求以下。 定的限量要求。

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