

Using DynDNS

Calling up the Sunny WebBox via the Internet



Content

This document describes how to access your Sunny WebBox from any computer via the Internet. You can only access your Sunny WebBox directly via the Internet if you know the current IP address of the router to which your Sunny WebBox is connected. The IP address of your router can change if your Internet provider cuts the connection to your router.

This document describes two possible solutions to this problem:

- calling up the Sunny WebBox via the Sunny Portal (www.SunnyPortal.com)
- calling up the Sunny WebBox via an Internet address using DynDNS

In order to use DynDNS, you must use a router for Internet access.

1 Calling up the Sunny WebBox via the Sunny Portal

Prerequisite: access to Sunny Portal

If you do not yet have access to the Sunny Portal, you can register via your Sunny WebBox as described in the Sunny WebBox manual.

For more information on the Sunny Portal, see www.SunnyPortal.com.

Prerequisite: router is configured for port forwarding

Configure your router for port forwarding to Sunny WebBox as described in section "Set port forwarding" (page 13).

If you are registered in Sunny Portal, you can access your Sunny WebBox via Sunny Portal. The Sunny WebBox regularly transmits the current IP address and port assigned by your Internet provider to Sunny Portal. To call up your Sunny WebBox, click on the name of your Sunny WebBox on the "Configuration > Device overview".

Device Overv	iew		
Device:	Serial Nun	nber: Devi	ce Class: De
Update	Reset		
Device 4	Serial Number	Device Class	Device Active
150002132	150002132	Sunny WebBox	~
2000333615	2000333615	Photovoltaic invert	er 🔗
2000333662	2000333662	Photovoltaic invert	er 🔗
2000333664	2000333664	Photovoltaic invert	er 🖌
		1	-0
2000333678	2000333678	Photovoltaic invert	er 🧡

2 Calling up the Sunny WebBox via an Internet address using DynDNS

If you do not wish to register in Sunny Portal, you can call up your WebBox via an Internet address using a DynDNS service. The DynDNS service can transfer the dynamic IP address of your Sunny WebBox to an Internet address. Some providers offer this service at no charge. These providers include, for example, www.dyndns.com and www.No-IP.com.

Prerequisites for using DynDNS:

- You use a router for Internet access.
- The Sunny WebBox has a fixed IP address and is not integrated into the network via DHCP (dynamically assigned IP addresses).

2.1 Set up an Internet address at a DynDNS service

This section provides an example of how to set up a fixed Internet address at a DynDNS service. In the following example, we use the Internet address "wb08.homeip.net" at the DynDNS service "www.dyndns.com".

Router with an integrated DynDNS service

Many routers support DynDNS services. In this case, proceed as described in this section.

Router without an integrated DynDNS service

If your router does not support a DynDNS service, you can install a special program called a "DynDNS client" on your computer. The program must run continuously, or at least have an Internet connection once per day.

- 1. Call up www.dyndns.com.
- 2. Select "Create Account" in order to create a user account.



		Enterprise
Password	d Lost Password?	Log in Create Account
rt	News	

by Dynamic	Network Services Inc.	Services	Account	Sunnort	News	
y Account		our mee		Dapport		Password
reate Account	Create an ac	count or	log in to co	ntinue		1
st Password? My Cart <u>0 items</u>	Username: Password: Confirm password:			_	Already Regist Username	tered?
earch	Email: Confirm email:			- 1	Forgot your passw	Log in vord?
Search	Subscribe to:	 ✓ DynDNS.cc (1 or 2 per ✓ Dyn Inc. p ✓ Remove H 	om newsletter month) ress releases TML formatting fro	m email		
	Security Image:	3 0	0 2			
		Enter the num	bers from the abov	e image:		

The page for creating a user account will open.

- 3. Enter the desired user name in the "Username:" field.
- 4. Enter the desired password in the "Password:" field.
- 5. Re-enter the desired password in the "Confirm password:" field to confirm.
- 6. Enter the e-mail address in the "Email:" field. The entered e-mail address must be valid. You will receive an e-mail with a link that you can follow to activate your user account. If you do not click the link within 24 hours and activate your user account, the user account will be deleted.
- 7. Re-ender your e-mail address in the "Confirm email:" field to confirm.
- 8. If you do not wish to receive the latest news via e-mail updates, deactivate the "DynDNS.com newsletter (1 to 2 per month" field in the "Subscribe to:" area.
- 9. In the "Enter the numbers from above image:" field, enter the numbers indicated above the field.
- 10. Activate the "I agree with the acceptable use policy (AUP) and privacy policy." field if you accept the providers terms and conditions.

- 11. Select [Create Account] if you wish to submit the completed form.
- The DynDNS service will send you an e-mail to confirm your registration. It may take several minutes for the e-mail to arrive in your inbox.

	_	_	_	_	_	Enterprise Registry >
	.com					Username
	About	Services	Account	Support	News	Password
One more step	to go					Log in
We've sent an email to	, to ver	ify your account.	Please check your i	nbox and click on t	he	0
If you do not receive the email in the	next few minute	s you can try <u>resenc</u>	ling it.			
Thanks for choosing DynDNS.com!						

Confirming registration

You must confirm your registration within 48 hours in order to activate your DynDNS user account.

- 12. Open the e-mail from DynDNS in your e-mail inbox.
- 13. Click on the link inside the body of the e-mail in order to confirm your registration.
 - The www.dyndns.com home page will open. The "Account Confirmed" message indicates that your user account has been activated and is ready to be set up.

						Enterprise > Registry >
	DNS.com					Username
	About	Services	Account	Support	News	Password
My Account	Account	Confirme	d			lr
Create Account			~			Last Barrused? Cents Account
Login	The account brytt has	been confirmed. Y	ou can now <u>login</u> a	nd start using you	r account.	
Lost Password?	Cutting Charted					
My Cart <u>O items</u>	Create a dynamic <u>Create a dynamic</u>	<u>c DNS host with you</u> c DNS host within o	r own domain nam ur Free domains	<u>e</u>		
Search Search	Setup email serv Register a domai	i <u>ces</u> in nam <u>e</u>				

Reserving an Internet address

14. Log in to the DynDNS home page with your user name (your e-mail address) and password.

☑ Your user account page will open.

	NIS		Logged In User
by Dynar	nic Network Services Inc.	-	• <u>Log</u>
	About Services	Account Support	News • My Se
My Account	DynDNS Account		
My Services	Mu Comison	Differe	Account Cattings
My Services Account Settings	My Services	Billing	Account Settings
My Services Account Settings Billing	My Services View, modify, purchase, and delete your services.	Billing Update your billing information, complete a purchase, and view invoices.	Account Settings Update your email address, preferences, and delete your account.
My Services Account Settings Billing My Cart Otems	My Services View, modify, purchase, and delete your services. My Zones/Domains	Billing Update your billing information, complete a purchase, and view invoices. View Shopping Cart	Account Settings Update your email address, spreferences, and delete your account.

15. Select "Services".

☑ The "Services" page will open.

					Enterprise > Registry
					Logged In User <u>Log Out</u>
	About S	ervices Account	Support	News	<u>My Services</u> My Cast
Services	Services				- My Cart
Domain Services	We for a second second				
MailHop Services	management, world-class e-m	ail services, web redirection, an	d network	Why DynDNS.cor	n - why you should choose us
DNS Reliability	monitoring. All of our services	include free email technical su	upport where	Lechnology Over	view - a peek behind the curtain
Dynamic DNS Pro	script off of a screen.		redding d		
Internet Guide	Density Constant				
SSL Certificates	Domain Services	-			
Pricing					
My Cart <u>0 items</u>					
	Dynamic DNS	Custom DNS	Domain I	Registration	Spring Server VPS
Visit the forum for DynDNS.com topics.	Service to track your dynami IP address.	c Our dynamic and static DN management tool for you	S Register no r transfer e	ew domains or existing ones.	From Web Servers to Gaming Servers, Spring Server VPS

16. Select "Dynamic DNS".

☑ The "Dynamic DNS Services" page will open.



17. Select "Dynamic DNS Free".

☑ The "Dynamic DNS Free" page will open.

	DNS.com						Logged In User
	About	Services	Account	Support	News		• <u>My S</u>
Services	Dynamic DNS	Free					
Domain Services Dynamic DNS Readme How-to Dynamic DNS Pro Custom DNS	Dynamic DNS Free (DD address, providing an e mechanism which make this service free to the	NS) allows you to cr easy-to-remember U es the hostname wo ne Internet commun	eate a hostname t RL for quick access rk with your dynan ity as we have don	hat points to your ho s. We also provide a nic IP address. We le so for nearly 10	ome or office IP in update continue to offer years.		Get Started Manage Hosts Screenshot
Domain Registration Spring Server VPS	Capabilities and Feat	tures					Nerve B States and a second s
MailHop Services DNS Reliability	Get five (5) host Forward web re Configure MX re	names in <u>88 availab</u> quests or mark host	le domains for fre offline for mainter	ee. nance or downtime.		=	Construction of the second of
Dunamic DNC Pro	- Configure Mix re						

18. Select [Get Started].

Open the "Add New Hostname" page.

	work Services Inc.					• <u>Log</u> Ou
	About	Services	Account	Support	News	My Servi My Cervi
Ay Account	Add New Hostr	name				1 Host Services
My Services Dynamic DNS Pro	Note: You currently don't features. Paying for an Dy	have any ac namic DNS	tive <u>Dynamic DNS Pro up</u> Pro upgrade will make tl	<mark>grades</mark> in your ac his form fully func	count. You cannot tional and will add	t use some of our Host Service I several other features.
SLA						-
Premier Support	Hostn	ame:	• dı	rrdns.org	-	
Zone Level Services Domain registration and transfer, DNS hosting, MailHop services	Wildcard St Service	atus: D Type: (isabled [<u>Want Wildcard :</u> Host with IP address []	<u>support?]</u>]		1
Host Services Dynamic DNS hosts, WebHop URL Forwarding		ć	WebHop Redirect [?] Offline Hostname [?]			
Spring Server VPS MailHop Outbound Recursive DNS Network Monitoring	IP Add	ress: [se auto detected IP addr TL value is 60 seconds.	ess 157.917.159. Edit TTL	<u>717.</u>	
SSL Certificates Renew Services						
Auto Renew Settings Sync Expirations	Mail Rou	ıting: [Yes, let me configure E	mail routing. [?]		
Account Settings					Add To Cart	C.
Billing				-		-

- 19. Enter the desired name for the Internet address (e.g. wb08) in the "Hostname:" field.
- 20. Enter the desired main domain name in the drop down menu (e.g., homeip.net). The main domain is the ending of the name of your home page.
- 21. Activate "Host with IP address" in the "Service Type" area.
- 22. Select the link "Use auto detected IP address ..xxx.xxx.xxx" under the field "IP address". The numbers in the link (xxx.xxx.xxx) is the current IP address of your router.

I The current IP address of your router is automatically entered into the "IP Address" field.

No further settings are necessary on this page.

23. Select [Add To Cart]

☑ DynDNS will check whether the desired Internet address (here: wb08.homeip.net) is available. If the Internet address is available, a message will appear that DynDNS has created an Internet address under this name.

	unic Network Services Inc.					
	About	Services	Account	Support	News	
y Account	Shopping Ca	rt				
ly Services						
ccount Settings		wb09.hom	eip.net added to ca	art. You must che	eckout to activate.	
illing	-					
illing Profile earch	Free accounts • To add more • To get Dynam	allow only five Dyna and enjoy <mark>additona</mark> nic DNS for your ov	mic DNS hosts. I benefits for only \$1 vn domain, use <u>Cu</u>	15.00 per year, <u>purc</u> stom DNS.	hase Dynamic DNS Pro 🍓 .	
	Dynamic DNS He	osts				
Search	wb09.homeip.r	<u>iet</u>		-	remove	\$0.00
342		coupons in the box	holow and click "Ad	ld Counon".		
	Please enter	Add Coup			Sub-Total:	\$0.00

24. Select [Next].

☑ The "Free Services Checkout" page will open.

	DNS.com					My Ca	Logged In User
	About	Services	Account	Support	News		
My Account	Free Services	Checkout					
My Services							
Account Settings	Once you have confi	rmed the contents o	of your cart your ser	vices will be instan	tly activated.		
Billing			Service			Period	Price
Active Services	Dynamic DNS Ho	sts					
Order History	wb09.homeip.n	<u>et</u>					\$0.00
Billing Profile						Sub-Total:	\$0.00
Billing Profile							
Billing Profile Search							

- 25. Select [Activate Services].
- The "Host Services" page will open and a message will indicate that the Internet page was successfully activated. The registration at DynDNS is now complete.

Always use "Log Out" to close the DynDNS page.

	DNS.com					Enterprice Registry Logged In User My Cart My Sarvice: Log Out
	About	Services	Account	Support	News	
My Account	Host Services				Ad	d New Hostname - <u>Host Update Log</u>
My Services			wb09 homein r	et successfully ac	tivated	
Dynamic DNS Pro			- Woosmonicp.r	ice successivity ac	avated.	
Internet Guide	Hostnan	ne	Service	<u>Details</u>		Last Updated
Premier Support Zone Level Services	wb09.homeip.net	ł	Host		Au	ıg. 27, 2009 7:30 AM

Additional steps:

- If you have a single Sunny WebBox, set up the router for DynDNS as described in section 2.2 "Set up router for DynDNS" (page 12).
- If you have more than one Sunny WebBox device and you want to access each of them via an Internet address, you will need to establish a different HTTP port and FTP port for each Sunny WebBox. You can change the HTTP port on the user interface of the Sunny WebBox as described in the Sunny WebBox manual. You will not be able to set different FTP ports on the Sunny WebBox. This entails setting changes in the router that requires substantial knowledge of networks. Before adjusting the ports, contact your network administrator.

2.2 Set up router for DynDNS

The settings for the router for DynDNS are described using the example of a router type like the "Linksys Compact Wireless G Broadband Router". Other routers, for example the "Dlink", can be set in a similar manner. Refer to your router manual to adjust the settings of your router.

- 1. Call up the router home page as described in the manual.
- 2. Open the settings page for Dynamic DNS.

In the example, the page is called "DDNS".

LINKSYS* A Division of Cisco Systems, Inc.						Firmwai	re Version: v1.03.0
	Compact Wireless-G Broadband Router WRT54						
Setup	Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
	Basic Setup	DDNS	MAC A	Address Clone	Advanced Routing		
DDNS DDNS Service	DynDNS.o User Name: Password: Host Name: Status: Connect		Testuser wb08 homeip ne lpdate OK	st.		Help	Cisco Systems
			Save	Settings C	Cancel Changes		aulliu

3. Input the DynDNS service home page in the router.

In the example, select "DynDNS" in the drop down menu. The DynDNS service "www.dyndns.com" used in these instructions can also be accessed at "www.dyndns.org".

4. Enter the user name for your DynDNS user account in the router.

In the example, enter the user name in the "User Name:" field ("Testuser" in the current example).

5. Enter your DynDNS user account password in the router.

In the example, enter "Password:" as the password of your DynDNS user account.

6. Enter the Internet address in the router that you set up at the DynDNS service.

Enter the Internet address in the field "Host Name:" in the example. In the example in these instructions, the Internet address "wb08.homeip.net" was established.

7. Save settings.

Select "Save Settings" in the example.

- The router will re-start. The start-up will take approximately 30 seconds. During the start-up, the router will briefly disconnect the connection to the Internet.
- If the router does not re-start, set the router on continuous operation as described in the router manual. The router needs to be in continuous operation so that the router can transmit its current IP address to the DynDNS service.

Set port forwarding

The port forwarding settings are necessary so that the router can forward accesses of port 80 to the IP address of your Sunny WebBox.

- 8. Access the settings page for port forwarding on the router. Open the page "Applications & Gaming/Port Range Forwarding" in the example.
- 9. In the router, enable access to the Sunny WebBox, the HTTP port (TCP 80-80), and the FTP port. Click the option "Enabled" as show in the figure in the example.

A Division of Cit	CSYS [®] sco Systems, Inc.						Firmwai	re Version: v1.03.0	
Applications & Gaming		Compact Wireless-G Broadband Router WRT54GC							
		Setup Wirele:		less Security	Access Restrictions	Applications & Gaming	Administration	Status	
Port Rang	ge Forwarding	Port R	ange Forward	iing Port Range	Triggering Di	AZ.	Help		
Арр	lication Name	Start	~ End Port	Protocol	To IP Addres	s Enabled	A STATE OF ST		
	DNS 💌	53	~ 53	TCP UDP	192.168.1.1				
	Finger 💌	79	~ 79	TCP UDP	192.168.1.1				
	FTP 💌	20	~ 21	TCP UDP	192.168.220.1	.00			
	POP3 💌	110	~ 110	TCP UDP	192.168.1.1				
	SMTP -	25	~ 25	TCP UDP	192.168.1.1				
snmp		161	~ 161		192.168.1.1				
telnet		23	~ 23	TCP UDP	192.168.1.1				
tftp		69	~ 69	TCP UDP	192.168.1.1				
web		80	~ 80	TCP UDP	192.168.1.1				
GWA		5001	~ 5001		192.168.220.1	02			
WebBox		80	~ 80	TCP UDP	192.168.220.1	.00			
			~						

☑ The router is now set up for the DynDNS service.

You can now call up your Sunny WebBox from any computer via the Internet address that you have set up at the DynDNS service. In the example in this manual, this is the Internet address "wb08.homeip.net".

3 Troubleshooting

Problem	Cause	Corrective measures
No connection to the Sunny WebBox via the Internet address which has been set up.	A firewall is blocking the Sunny WebBox port.	In the firewall, enable access to the port that can access the Sunny WebBox.
	The router is not properly configured for port forwarding.	Check your router settings.
	The access data for the DynDNS service are not set properly in the router.	Check your router settings.