

# NETGEAR<sup>®</sup> ProSAFE<sup>®</sup> WAC720 and WAC730

How to Create an Ensemble with Two WAC720 or WAC730

APPLICATION NOTES



### **CONCEPTS**

The NETGEAR® ProSAFE® WAC720 and WAC730 are high performance 2 x 2 and 3 x 3 business class dual band 802.11ac wireless Access Points (AP) that can support an aggregate through¬put of up to 1.2 Gbps (300 Mbps for 2.4 GHz and 867 Mbps 802.11ac for 5 GHz) and 1.75Gbps (450Mbps for 2.4GHz and 1.3Gbps 802.11ac for 5 GHz) respectively. The WAC720 & WAC730 operate in standalone or ensemble mode for centralized group management of up to 10 like Access Points without additional hardware, licenses or support fees. Ensemble mode allows you to initiate common firmware updates and monitor client connectivity and usage for multiple APs through a centralized dashboard.

#### **COMPONENTS**

WAC720 or WAC730 x 2 (up to 10)

#### **CONFIGURATION STEPS**

**NOTE:** By default the WAC720/730 will obtain an IP address from your DHCP Server. Username: admin Password: password

## Suggested Test Setup

For our example, we will have two WAC720 with the following IP address: AP1: 192.168.50.188 AP2: 192.168.50.189

We will also give the ensemble we created the following management IP address: Ensemble IP: 192.168.50.197

Although we can still go into the management IP of each ensemble member, giving every member the same ensemble IP address will provide you with a single IP address in which to manage your ensemble regardless of which member is the master.

#### **Steps**

The steps below illustrates the typical steps to create the ensemble we outlined above.

- 1. Login to AP1 (in our example the IP address is 192.168.50.189, yours may vary) and go to the **Configuration -> Ensemble -> Basic -> Ensemble General** page.
- 2. For **Ensemble Mode** select **Start**, for Ensemble Name enter a name for your Ensemble. The Ensemble Name is what joins all the members of the ensemble. Every AP in the same ensemble must have the same Ensemble Name.
- 3. For AP Name, give your AP a descriptive name (optional).
- 4. For **Priority**, enter a number. The priority number is used to determine which AP is the master. In our example we will give it 10.
- 5. Click Apply.



<b>NETGEAR</b> <sup>®</sup>					
WAC720 ProSAFE Dua	Band Wireless	AC Access Point			Welcome admin 🗋 😨 📭
Configuration	Monitoring	Maintenance	Support		
System IP Wir	eless Security	Wireless Bridge	Ensemble	Captive Portal	
					Cancel Apply
Basic	Ensemble Gene	ral			
Ensemble General					
Management	Ensemble Mod	e 💿 Start 🤇	Stop		
Secured Ensemble	Ensemble Nan	myEnsemb	e		
Advanced	AP Name	netgear805	7af		
	Priority (0 - 255	j) 10			
NETGEAR					
	5				Welcome admin D @ F
WAC720 ProSAFE Dual	Band Wireless A	C Access Point		_	
Configuration	Monitoring	Maintenance	Support		
System IP Wire	eless Security	Wireless Bridge	Ensemble	Captive Portal	
					Cancel Apply
Basic	Ensemble Gene	ral			
Ensemble General					
<ul> <li>Management</li> </ul>	Ensemble Mode	e 💿 Start 🤇	Stop		
<ul> <li>Secured Ensemble</li> </ul>	Ensemble Nam	e myEnsembl	e		
Advanced	AP Name	netgear805	7af		
	Priority (0 - 255	) 10			

- Next, go to the Configuration -> Ensemble -> Basic -> Management page. Enter an IP address for your ensemble. (In our example we give it 192.168.50.197)
- 7. Click Apply.
- **NOTE:** Although not required, a best practice is to give every member of the ensemble the same Ensemble Management IP Address. This way, if the current Ensemble master is removed from the ensemble, you will be able to still manage the ensemble from the same ensemble management IP address.

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WAC	720 Pi	roSAFE	Dual B	and Wireles	s AC Access Point	t			Welco	ome admin	0 🖪
C	Configur	ation	Mo	onitoring	Maintenance	Supp	ort				
Sys	stem	IP	Wireles	ss Secur	ity Wireless Bridg	ge Ensei		Captive Portal			
										Cancel	Apply
Basi	c			Management							
• E	nsemble	e Genera	d								
• M	lanagen	nent		Ensemble S	tatus		Started				
• S	ecured	Ensembl	е	IP Address	to manage Ensemble	(IP∨4)	192.16	8.50.197			
Adva	anced										

- 8. Now, go to the **Configuration -> Ensemble -> Basic -> Secure Ensemble** page. Securing the ensemble is an important step to prevent unwanted APs from joining your ensemble.
- 9. Select **Enabled for Secure Mode** and enter a secure **Passphrase**. The **Re-authentication Timeout** value can be left at default.
- 10. Click **Apply**.



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WAC720 Pro	SAFE	Dual B	and Wireles	s AC Access Point	:		Welc	ome admin	0
Configurati	ion	Mo	onitoring	Maintenance	Support				
System	IP	Wireles	ss Secur	ity Wireless Bridg	je Ensemble	Captive Portal			
								Cancel	Apply
Basic			Secured Ens	emble					
Ensemble	General								
Manageme	nt		Ensemble S	Status		Started			
Secured Er	nsemble	e	Secure Mod	le		🖲 Enabled 🔍 Disabled			
Advanced			Passphrase	(8 - 63 characters)		securepassword;)			
			Re-authenti	cation Timeout (300 - 8	6400 secs)	300			

- 11. Next, we will enable **Auto Channel Assignment** for the ensemble. This will allow the ensemble to automatically adjust the channels used by ensemble member APs, according to real-time RF conditions. Go to **Configuration -> Ensemble -> Advanced -> Channel Assignment**.
- 12. For Auto Assign Channels, select Start.

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WAC720 P	roSAFE	Dual B	and Wireless	AC Acces	s Point						Welcom	ne admin	0
Configur	ration	M	onitoring	Maintena	nce	Support							
System	IP	Wirele	ss Security	Wirele	ss Bridge		e C	Captive Po	ortal				
												Cancel	Apply
Basic			Channel Assig	nment									
Advanced													
Channel	Assignm	ent	Ensemble Sta	tus	Start	ed							
<ul> <li>Channel Settings</li> </ul>	Assignm	ent	Auto Assign 0	hannels		Start	S	top		Refresh			
			IP Address	R	adio	Band	Chan	nel Stat	tus	Assign to Static			
			192.168.50.18	9 50:6A:03	3:80:57:B0	11a-na-ac	161	up					
			192.168.50.18	9 50:6A:03	3:80:57:A0	11ng	6	up					
			Proposed Char	inel Assignm	nents (1 mi	inute and 14 s	seconds	ago)					
			IP Add	ress		Radio		Pro	opose	ed Channel			
			192.168.50.18	9	50:6A:03:8	0:57:B0		161					
			192.168.50.18	9	50:6A:03:8	0:57:A0		6					

Now, we will configure AP2 so that it joins the ensemble we just created.

- 13. Login to AP2 (in our example the IP address is 192.168.50.188, yours may vary) and go to the **Configuration -> Ensemble -> Basic -> Ensemble General** page.
- 14. For **Ensemble Mode** select **Start**, for **Ensemble Name** enter the same ensemble name you used for AP1. The Ensemble Name is what joins all the members of the ensemble. Every AP in the same ensemble must have the same Ensemble Name.
- 15. For **AP Name**, give your AP a descriptive name (optional).
- 16. For **Priority**, enter a number. The priority number is used to determine which AP is the master. In our example we will give it 9.
- 17. Click Apply.



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,	WAC720 P	roSAFE	Dual E	and Wirele	ss AC Access	Point				Welco	me admin	20
	Configur	ation	М	onitoring	Maintenar	nce	Support					
	System	IP	Wirele	ss Secu	rity Wireles	ss Bridge	Ensemble	Captive Porta	I			
											Cancel	Apply
	Basic			Ensemble G	eneral							
	Ensemble	e Genera	ıl									
	<ul> <li>Managen</li> </ul>	nent		Ensemble I	Vode	Start	Stop					
	<ul> <li>Secured</li> </ul>	Ensembl	е	Ensemble I	Name	myEnsem	ble					
	Advanced			AP Name		netgear80	5d8f					
				Priority (0 -	255)	9						

- 18. Next, go to the **Configuration -> Ensemble -> Basic -> Management** page. Enter an IP address for your ensemble. (In our example we give it 192.168.50.197)
- 19. Click Apply.

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WAC720 ProSAFE Dual B	and Wireless AC Access Point		Welcome admin 🖸 🕜 📭
Configuration M	onitoring Maintenance	Support	
System IP Wirele	ss Security Wireless Bridge	Ensemble Captive Portal	
			Cancel Apply
Basic	Management		
Ensemble General			
Management	Ensemble Status	Started	
<ul> <li>Secured Ensemble</li> </ul>	IP Address to manage Ensemble (IPv4)	192.168.50.197	
Advanced			

- 20. Now, go to the **Configuration -> Ensemble -> Basic -> Secure Ensemble** page. Securing the ensemble is an important step to prevent unwanted APs from joining your ensemble.
- 21. Select **Enabled** for **Secure Mode** and enter a secure **Passphrase**. The **Re-authentication Timeout** value can be left at default.
- 22. Click Apply.

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WAC720 P	roSAFE	Dual Ba	and Wireless /	AC Access Point			Welcome admin 🖸 🕐 📭
Configu	ration	Ma	nitoring	Maintenance	Support		
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							Cancel Apply
Basic			Secured Ensem	ble			
Ensemble	le Genera	d					
Manager	nent		Ensemble Stat	us		Started	
Secured	Ensemb	е	Secure Mode			🖲 Enabled 🔍 Disabled	
Advanced			Passphrase (8	- 63 characters)		securepassword;)	
			Re-authenticati	on Timeout (300 - 8640	00 secs)	300	



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24. For Auto Assign Channels, select Start.

Now that the ensemble has been created, we will now create a wireless-ac SSID on the ensemble. You can do this on any member of the ensemble as the settings will be auto propagated to all other members of the ensemble. However, as a best practice, it is best to login to the ensemble management IP address (192.168.50.197) and make all your changes on the ensemble master.

- 25. Login to the ensemble management IP address and go to the **Configuration -> Security -> Profile Settings** page.
- 26. For this example we will edit the default 5GHz profile according to our settings. Find the **Profile Settings 802.11 a/na-ac/a-na-ac** section at the bottom of the page and select **profile #0**.
- 27. Click Edit.

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WAC720	) ProSAFE I	Dual Band V	Virele	ss AC Acc	ess Point					Welcome admin 🗗 🕐 🕩
Confi	iguration	Monitorir	ng	Mainte	enance S	upport				
System	n IP	Wireless	Sec	urity Wir	reless Bridge En	semble (	Captive Po	ortal		
										Edit Cancel Apply
Profile Se	ettings	Profil	e Sett	inas - 802 11	ba/na/ban					
Advance	d									
			# P	rofile Name	SSID	Security	VLAN	Enable	WMF-Enable	
		0	0 N	ETGEAR	peterdeskn	WPA2-PSK	1	1		
		0	1 N	ETGEAR-1	NETGEAR_11ng-1	Open System	n 1			
		0	2 N	ETGEAR-2	NETGEAR_11ng-2	Open System	n 1			
		0	3 N	ETGEAR-3	NETGEAR_11ng-3	Open System	n 1			
		0	4 N	ETGEAR-4	NETGEAR_11ng-4	Open Syster	n 1			
		0	5 N	ETGEAR-5	NETGEAR_11ng-5	Open Syster	n 1			
		0	6 N	ETGEAR-6	NETGEAR_11ng-6	Open System	า 1			
		0	7 N	ETGEAR-7	NETGEAR_11ng-7	Open Syster	1 1			
		Profil	e Sett	ings - 802.11	a/na-ac/a-na-ac					
			# P	rofile Name	SSID	Security	VLAN	Enable	WMF-Enable	
		۲	0 N	ETGEAR	NETGEAR_11ac	Open Syster	n 1	4		
		0	1 N	ETGEAR-1	NETGEAR_11ac-1	Open System	n 1			
		0	2 N	ETGEAR-2	NETGEAR_11ac-2	Open System	n 1			
		0	3 N	ETGEAR-3	NETGEAR_11ac-3	Open System	n 1			
		0	4 N	ETGEAR-4	NETGEAR_11ac-4	Open System	n 1			
		0	5 N	ETGEAR-5	NETGEAR_11ac-5	Open System	n 1			
		0	6 N	ETGEAR-6	NETGEAR_11ac-6	Open System	n 1			
		0	7 N	ETGEAR-7	NETGEAR_11ac-7	Open Syster	า 1			

- 28. Enter your SSID security settings.
- 29. Click Apply.



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WAC720 ProSAFE Dual I	Band Wireless A	C Access Point				Welco	me admin [	20
Configuration M	Nonitoring	Maintenance	Support					
System IP Wirel	ess Security	Wireless Bridge	Ensemble	Captive Portal				
						Back	Cancel	Apply
Profile Settings	Edit Security Prof	ïle						
Advanced								
	Profile Definition							
	Profile Name			NETGEAR				
	Wireless Networ	k Name (SSID)		peterdeskac				
	Broadcast Wirele	ess Network Name (S	SID)	🖲 Yes 🔍 No				
	Authentication Se	ttings						
	Network Authent	ication		WPA2-PSK	۲			
	Data Encryption			AES	•			
	WPA Passphras	e (Network Key)						
	Show Passphras	e in Clear Text		🖲 No 🔍 Yes				
	VLAN ID			1				
	Qos Policies							
	Mode			•				
	Apply Policy			Incoming		Outgoing		
	Policy Details			None	۲	None	۲	
	Bandwidth Limit	(bits per second)		0		0		
	Captive Portal							
	Profile Name			None	•			

30. And that's it! You can go to the **Monitoring -> Ensemble** page to monitor the status of your ensemble.

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w	AC720 Pr	oSAFE Dual B	and Wireless	AC Access Point						Welc	ome admin	2 7 🗈
	Configura	ation M	onitoring	Maintenance	Support							
	System	Dashboard	Wireless Statio	ons Rogue AP	Logs St	atistics I	Packet C	apture	Ensemble			
												Refresh
A	ccess Poin	t	Access Point									
V	Vireless Sta	tions										
V	Vireless Nei	ghborhood	AP Name	MAC Address	IP Address	Ensemble	Master	Firmware	2.4GHz	5GHz	Uptime in	Status
						Priority	AP	version	Channel	Channel	Ensemble	
			netgear805d8f	50:6A:03:80:5D:8F	192.168.50.188	9	no	1.1.10.5	11	157	0 days 0	Connected
											hours 5	
											minutes	
			netgear8057af	50:6A:03:80:57:AF	192.168.50.189	10	yes	1.1.10.5	6	161	0 days 0	Connected
											hours 5	
											minutes	
			**NOTE: This t	able takes few minut	es to get updated							



Top ProSAFE Dual Band Wireless AC Access Point       Support       Ensemble         Under under version       Rogue AP       Log is Statistic in Packet Capture       Ensemble         Under under version       Rogue AP       Log is Statistic in Packet Capture       Ensemble         Under under version       System Kamer englear/057.rfl       System Kamer englear/057.rfl       Yenson: 11.10.3       System Kamer englear/057.rfl         Total chemin in Ensemble more: 2       Management P. 102.155.00.197       Verson: 11.10.3       System Kamer englear/057.rfl       Piper: 0.04.05.00.00.00.00.00.00.00.00.00.00.00.00.	TGEAR												
Item       Maintenance       Support         Item       Dashboard       Wireless Stations       Rogue AP       Log is       Statistics       Packet Capture       Ensemble         Iber del       Ensemble Mode - Controller AP       Ensemble Mode - Controller AP       Ensemble Mode - Controller AP         Total Essemble Mode none : 2       Management (P) 192 152 50 197       Version 1.1 10.5       System Name: entges/8057 st P1 102 168 50 169         Controll Essemble Mode none : 2       Management (P) 192 152 50 197       Version 1.1 10.5       System Name: entges/8057 st P1 102 168 50 169         Controll Essemble Mode none : 2       Management (P) 192 152 50 197       Version 1.1 10.5       System Name: entges/8057 st P1 102 168 50 169         Controll Essemble Mode none : 2       Management (P) 192 169 50 197       Tatic       Tatic         Gauge of Last 24 Hoar       F clients       Tatic       Tatic         It 1	720 ProSAFE Dua	al Band Wireless AC	Access Point										
m     Daskbourd     Wreless Station     Roge AP     Log     Statistics     Packet Capture     Ensemble	onfiguration	Monitoring M	faintenance	Suppor	rt								
text backboard Control of Lass A Hause Total clears in Ensemble nor: 2 Management P: 192.188.0.197 Control clears in Ensemble nor: 2 Management P: 192.188.0.197 Total clears in Ensemble nor: 2 Management P: 192.188.0.197 Control clears in Ensemble nor: 2 Management P: 192.188.0.197 Total clears in Ensemble nor: 2 Management P: 192.188.0.197 Management	em Dashboard	Wireless Stations	Rogue AP	Logs	Statistics	Packet Capture	Ensemble						
be Delaboration of the second													
be Dashbard	oard								Encombl	- Mada Cantra	lles AD		
Sydem for         Sydem for         Total Elsemble Monets nor : ?       Management IP: 192:185.50.197         Total Clents in Ensemble nor : ?       Wentson: 1.1.1.5       Sydem for         Current Usage- Top Access Point         Total Clents         For Clents       Total Clents       Total Clents         Total Clents       Total Clents         Total Clents         Total Clents         Total Clents         Total Clents         Total Clents         Total Clents         Total Clents         Total Clents         Total Clents         Total Clents         Total Clents         Total Clents <td>ble Dashboard</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ensemble</td> <td>e wode - Contro</td> <td>nel Ar</td> <td></td>	ble Dashboard								Ensemble	e wode - Contro	nel Ar		
Total Ensemble Monthes now: 2 Total Ensemble Monthes In Ensemble Now: 2 Prior 104, 2183, 20, 197 Prior 104, 218, 20, 218 Prior 104, 218 Prior 104, 218, 20, 2			Ens	emble Info						System Ir	fo		
Current Usage-Top Access Point F Clients F Clients F Clients F Clients F Clients F Clients F Clients F Clients F Clients F Clients Traffic		Total Ensembl Total clients in	Ensemble now: 2	Manag	jement IP: <u>19.</u>	2.168.50.197		Ver	sion: 1.1.10.5 Uptime: 0 days: 0 h	ours 45 minutes	System Name: n IP: 19	etgear8057af 2 168 50 189	
Current Usage - Top Access Point													
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Usage of Lest 24 Hours           # of Clients           1           0           0.3           0.7           0.8           0.7           0.8           0.7           0.8           0.7           0.8           0.7           0.8           0.7           0.8           0.7           0.8           0.8           0.8           0.4           0.3           0.4           0.3           0.4           0.4           0.5           10									59.5%	-104			
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0.3 0.2 0.1 0.1 0.1 0 0 0.1 17/11 Tree in Hours Moules Traffic 10 10		Usage of Last2 # of Clients 1.1 0.0 0.6 0.7 0.6 0.6 0.6	∎ netge 4 Hours	ear8057af	netgear805dl	37	•	netgear805	59.5%	d8f			
0.2 0.1 0 -0.1 Tree in Hous Moutes Traffic 11 10		Usape of Lasi / # of Clients 1.11 0.90.8 0.7 0.6 0.50.5 0.4	■ netge	ar8057af	netgear805di	эг	•	netgear805	59.5%	189			
0.1 0 -0.1		Uspoe of Last # of Clients 1.1	∎ netge 4 Hours	ar8057af	netgear805df	3f	•	netgear805	59.5%	id8f			
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Time in Hours Minutes Traffic 11 10 10		Usage of Lasi.2 # of Clients 1.1 0.9 0.8 0.7 2 0.6 0.5 0.5 0.5 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4 Hours	en e	netgear805dl	Э	•	netgear805	59.5%	481			
Traffic		Uspee of Last? # of Clients 1.1	4 Hours	ar8057af	netgear805dd	3f	•	n neigear805	59.5%	d8f			
11		Usage of Lasi.	4 Hours	ar8057af	netgear805dl	Я	• 	e netpear805	59.5%	der			
11		Usepte of Lesi- # of Clients 1.1	4 Hours	rar8057af	netgear805dl	3f	t7:11 Time in Hourd	• netgear805	59.5%	def			
10		Usage of Lasiz # of Clients 1.1 0.0 0.7 2 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	4 Hours	ar8057a1	netgear805dl	3f	e 17.11 Tine in Hours.1	netgear805	59.5%	daf			
		Usage of Lasi 2 # of Clients 1.1 0.0 0.8 0.7 0.7 0.7 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	4 Hours	ar8057at	netgear805df	Э	t 17:11 Time in Hours.1	Indes	59.5%	d8f			

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