

PROCEDURE D'INSTALLATION BORNE CELLULES WIFI

BTS SIO SISR

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Planning d'exécution :

Réf	Technicien	Bref description	Dates
1	Elijah B	Création du document	13/01/25
2	Aymeric P	Réalisation de la procédure	13/01/25
3	Abdou P	Réalisation des documents annexes	27/11/25
4			

Relecture et validation :

	Nom	Dates	Note	Check
Auteur	Aymeric P			ОК
Relecteur				
Validation				

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1. Préparation de la configuration

Matériel nécessaire :

- Un câble Ethernet pour la connexion directe.
- Les informations par défaut de la borne :
 - Adresse IP d'usine : 192.168.1.245
 - Login : cisco
 - Mot de passe : cisco

2. Accéder à l'interface web de la borne

- 1. Connectez-vous à la borne :
 - Branchez le câble Ethernet entre l'ordinateur et la borne.
 - Ouvrez un navigateur et entrez : <u>http://192.168.1.245</u>.

C	 192 	2.168.1.245	
dentifi	iez-vous av	ec les inform	nations suivantes :

- Login : cisco
- Mot de passe : cisco

3. Modifier l'adresse IP de la borne

1. Accédez à l'onglet LAN Settings ou Network Settings.

cisco WAP371 \	Wireless-AC/N Dual Ra	dio Access Point with Single Point Setup (CISCO) Log Out About H
Getting Started	VI AN and IDv4 Address	
Run Setup Wizard	VLAN and IFV4 Address	
 Status and Statistics 	Global Settings	
 Administration 	MAC Addross:	00-04-02-26-40-60
▼ LAN	MAC Address.	00.01.23.23.40.30
Port Settings	Untagged VLAN:	☑ Enable
IPv6 Addresses	Untagged VLAN ID:	100 (Range: 1 - 4094, Default: 1)
LLDP	Management VLAN ID:	100 (Range: 1 - 4094, Default: 1)
 Wireless 		
 System Security 	IPv4 Settings	
 Client QoS 	Connection Type:	O DHCP
SNMP	Connection Type.	Static IP
 Single Point Setup 	Static IP Address:	172 . 16 . 0 . 10
Captive Portal	Subnet Mask:	255 . 255 . 255 . 0
	Default Gateway:	172 . 16 . 0 . 254
	Domain Name Servers:	DynamicManual
		172 . 16 . 0 . 100
	DHCP Auto Configuration Settings	T Factor

- 2. Configurez une nouvelle adresse IP statique :
 - Adresse IP : **172.16.0.10**
 - Masque de sous-réseau : 255.255.255.0
 - Passerelle par défaut : 172.16.0.254

Getting Started Run Setup Wizard	VLAN and IPv4 Address	
Status and Statistics Administration LAN Port Settings VLAN and IPv4 Address IPv6 Addresses IPv6 Tunnel U DP	Global Settings MAC Address: Untagged VLAN: Untagged VLAN ID: Management VLAN ID:	00:B1:E3:25:4D:50 Enable (Range: 1 - 4094, Default: 1) (Range: 1 - 4094, Default: 1)
 Vireless System Security Client QoS SNMP Single Point Setup Captive Portal 	IPv4 Settings Connection Type: Static IP Address: Subnet Mask: Default Gateway: Domain Name Servers:	DHCP • Static IP 172 .16 255 .255 .172 .16 .0 .254 Dynamic • Manual .172 .16 .10 .110

- 3. Sauvegardez les paramètres.
- 4. Reconnectez-vous avec la nouvelle IP : http://172.16.0.10



4. Configurer le WiFi avec sécurité WPA2

- 1. Accédez à l'onglet Wireless > Radio.
- 2. Sélectionner Radio 1 (5ghz)
- 3. Cocher Enable pour Radio dans les Basics Settings

cisco WAP371 \	Vireless-AC/N Dual Rad	io Access Point with Single Point Setup (cisco) Log Out About He
Getting Started	Dedia	
Run Setup Wizard	Radio	
 Status and Statistics 	Global Settings	
 Administration 	TSPEC Violation Interval:	200 See (Dense: 0, 000, 0 = Disable Default: 200)
► LAN	TSPEC Violation Interval.	Sec (Range. 0 - 900, 0 - Disable, Detault. 500)
Wireless Radio Rogue AP Detection Networks Wireless Multicast Forward Sebert data	Radio Setting Per Interface Select the radio interface first, and then Radio:	enter the configuration parameters.
Scheduler Scheduler Association	Basic Settings	
Bandwidth Utilization MAC Filtering	Radio:	Enable
WorkGroup Bridge	MAC Address:	00:B1:E3:25:4D:50
QoS System Security 	Mode:	802.11a/n/ac ~
 Client QoS 	Channel Bandwidth:	80 MHz 🗸
► SNMP	Brimani Channeli	
 Single Point Setup 	Finnary Channel.	Lower
 Captive Portal 	Channel:	Auto ~
	Advanced Settings DFS Support Short Guard Interval Supported:	On ~ Yes ~

			_
Getting Started	Transmit Power:	Full - 100% ×	
Run Setup Wizard	Frame-burst Support:	Off V [Boosts Downstream Throughput]	
 Status and Statistics 			
 Administration 	Fixed Multicast Rate:	Auto - Mbps	
► LAN		Rate (Mbps) 54 48 36 24 18 12 9 6	
 Wireless 	Legacy Rate Sets:	Supported Image: I	
Radio		Basic	
Rogue AP Detection Networks Wireless Multicast Forwarc Scheduler	Broadcast/Multicast Rate Limiting	Rate Limit 50 Packets Per Second (Range: 1 - 50, Default: 50) Rate Limit Burst 75 Packets Per Second (Range: 1 - 75, Default: 75)	
Scheduler Association Bandwidth Utilization	TSPEC Mode:	Off ~	
MAC Filtering WDS Bridge	TSPEC Voice ACM Mode:	Off ~	
WorkGroup Bridge QoS	TSPEC Voice ACM Limit:	20 Percent (Range: 0 - 70, Default: 20)	
 System Security 	TSPEC Video ACM Mode:	Off ~	
Client QoSSNMP	TSPEC Video ACM Limit:	15 Percent (Range: 0 - 70, Default: 15)	
 Single Point Setup 	TSPEC AP Inactivity Timeout:	30 Sec (Range: 0 - 120, 0 = Disable, Default: 30)	
Captive Portal	TSPEC Station Inactivity Timeout:	30 Sec (Range: 0 - 120, 0 = Disable, Default: 30)	
	TSPEC Legacy WMM Queue Map Mode:	Off ~	
	VHT Features:		
<>	Save		

Ensuite descendre en bas de la page et cliquer sur Save

4 . Cliquez sur LAN et sur VLAN and IPV4 Adress pour changer l'ip de la borne et rentrer les informations relative à votre borne et a votre domaine

cisco WAP371 V	Vireless-AC/N Dual I	Radio Access Point with Single Point Setup (cisco) Log Out About
Getting Started)// ANI am d ID-44 A dalama	
Run Setup Wizard	VLAN and IPv4 Addres	is
 Status and Statistics 	Global Settings	
 Administration 		00.04.00.00.40.00
▼ LAN	MAC Address.	00.B1.E3.25.4D.50
Port Settings	Untagged VLAN:	Enable
VLAN and IPv4 Address IPv6 Addresses IPv6 Tunnel	Untagged VLAN ID:	100 (Range: 1 - 4094, Default: 1)
LLDP	Management VLAN ID:	100 (Range: 1 - 4094, Default: 1)
 Wireless 		
 System Security 	IPv4 Settings	
 Client QoS 	Connection Type:	O DHCP
► SNMP	Connection Type.	Static IP
 Single Point Setup 	Static IP Address:	172 . 16 . 0 . 10
Captive Portal	Subnet Mask:	
	Default Gateway:	172 . 16 . 0 . 254
	Domain Name Servers:	O Dynamic
		 Manual
		172 . 16 . 0 . 100
	DHCP Auto Configuration Setti	ngs

5 .Créez un réseau WiFi :se rendre dans Wireless > Networks

Getting Started	Netw	orks						
Run Setup Wizard								
Status and Statistics	Select the radio interface first, and then enter the configuration parameters.							
Administration	Radio: Radio 1 (5 GHz) Redio 2 (5 GHz)							
LAN			110 2 (2.4 (582)				
Vireless	Virt	ual Acces	s Points (SSIDs)				
Radio Regue AB Detection		VAP No.	Enable	VLAN ID	SSID Name	SSID Broadcast	Security	MAC F
Networks		0		1	ciscosb		None	Disab
Wireless Multicast Forwarc		Add	Edit	Dala	ta			
Schodulor Accordition								
Scheduler Association								
Bandwidth Utilization	Sav	/e						
Bandwidth Utilization MAC Filtering	Sav	/e						
Bandwidth Utilization MAC Filtering WDS Bridge	Sav	/e						
Bandwidth Utilization MAC Filtering WDS Bridge WorkGroup Bridge	Sav	/e						
Bandwidth Utilization MAC Filtering WDS Bridge WorkGroup Bridge QoS System Security	Sav	/e						
MAC Filtering WDS Bridge WorkGroup Bridge QoS System Security Client QoS	Sav	/e						
Scheuter Association Bandwidth Utilization MAC Filtering WDS Bridge WorkGroup Bridge QoS System Security Client QoS SNMP	Sav	/e						
Scheuter Association Bandwidth Utilization MAC Filtering WDS Bridge WorkGroup Bridge QoS System Security Zilent QoS SMMP Single Point Setup	Sav	/e						
Bandwidh Utilization MAC Filtering WDS Bridge WorkGroup Bridge QoS System Security Client QoS SNMP Single Point Setup Captive Portal	Sav	/e						
Bandwidh Visication MAC Filtering WDS Bridge WorkGroup Bridge QoS System Security Client QoS SNMP Single Point Setup Captive Portal	Sav	/e						
Bandwidh Ulication MAC Filtering WDS Bridge WorkGroup Bridge QoS System Security Client QoS SNMP Single Point Setup Captive Portal	Sav	/e						
Bandwidh Ublication MAC Filtering WDS Bridge WorkGroup Bridge QoS System Security Client QoS SNMP Single Point Setup Captive Portal	Sav	/e						

- **SSID** : Choisissez un nom (par ex. WiFi-Admin).
- Activez la diffusion du SSID.

Networks				
Select the radio interface first, and then enter the configuration parameters. Radio: • Radio 1 (5 GHz) • Radio 2 (2.4 GHz)				
Virtual Access Points (SSIDs)				
VAP No. Enable VLAN ID SSID Name	SSID Broadcast	Security	MAC Filter	Ch
0 🗹 10 Assurmer-wifi-AAE		None ~	Disabled ~	
Add Edit Delete				
Save				

- 4. Dans Wireless Security, configurez la sécurité :
 - Mode : WPA2-entreprise.
 - Clé de sécurité : Entrez un mot de passe sécurisé (par ex. MotDePasse123).
 - Cocher Use global RADIUS server settings

5. Sauvegardez les modifications.

SSID Broadcast	Security	MAC Filter	Channel Isolation	Band Steer
	WPA Enterprise ~	RADIUS ~		
	Hide Details			
	WPA Versions: 🔲 WPA-TKI	P WPA2-	AES	
	Enable p	re-authentication		
	MFP: Not Requi	red 🔽 Capable	Required	
	✓ Use global RADIUS serve	er settings		
	Server IP Address Type:	IPv4 O IPv6		
	Server IP Address-1: 0.0	.0.0	(XXX.XXX.XXX.XXX)	
	Server IP Address-2:		(xxx.xxx.xxx)	
	Server IP Address-3:		(XXX.XXX.XXX.XXX)	
	Server IP Address-4:		(XXX.XXX.XXX.XXX)	
	Key-1:		(Range: 1-64 Characters)	
	Key-2:		(Range: 1-64 Characters)	
	Key-3:		(Range: 1-64 Characters)	
	Key-4:		(Range: 1-64 Characters)	
	Enable RADIUS Accounti	ina		
	Active Server:	Server IP Address-1 ~		
	Broadcast Key Refresh Rate:	86400	Sec (Range: 0-86400, 0 = Disa	ble, Default: 86400)

5. Configurer le serveur RADIUS

- 1. Accédez à Wireless > RADIUS Server
 - Cocher IPv4
- 2. Rentrer l'adresse ip du serveur
- 3. Cocher Radius Accounting
- 4. Sauvegarder

cisco WAP371 V	Vireless-AC/N [Dual Radio Acces	s Point with Single Point Setup	(cisco)	Log Out
Getting Started	RADIUS Server				
Run Setup Wizard					
 Status and Statistics 	Server IP Address Type	● IPv4			
 Administration 		O IPv6			
► LAN	Server IP Address-1	172 16 0 1			
 Wireless 					
System Security	Server IP Address-2:		(xxx.xxx.xxxx)		
RADIUS Server 802.1X Supplicant	Server IP Address-3:		(XXXX.XXXX.XXXX)		
Password Complexity WPA-PSK Complexity	Server IP Address-4:		(xxx.xxx.xxx.xxx)		
Client QoS SNMP	Key-1:	•••••	(Range: 1 - 64 Characters)		
Single Point Setup	Key-2:		(Range: 1 - 64 Characters)		
Captive Portal	Key-3:		(Range: 1 - 64 Characters)		
	Key-4:		(Range: 1 - 64 Characters)		
	RADIUS Accounting: 🗹 Enable				
	Save				

La borne est bien configurée !