

PM-WANI Central Registry User Manual

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Chapter 1.

Introduction

Proliferation of broadband across the length and breadth of the country is an essential ingredient of Digital India. Towards this objective, it is envisaged to leverage public Wi-Fi network for delivery of broadband services. This is sought to be facilitated by rolling out WANI infrastructure with the broadband services being provided under distributed architecture and unbundling of infrastructure to improve performance by different players under the WANI eco system.

What is WANI framework?

While delivery of broadband is possible through different media and technologies, under the WANI framework, it is envisaged that last mile broadband connectivity, where the consumer accesses broadband services, will be through a network of public Wi-Fi access points. The backhaul requirement for these Wi-Fi access points will be met by procuring internet bandwidth from the telecom service providers/internet service providers. Under the distributed architecture and unbundling of functions, the WANI eco-system will be operated by different players who are described herein under:

- **Public Data Office (PDO):** It will establish, maintain, and operate only WANI compliant Wi-Fi Access Points and deliver broadband services to subscribers.
- **Public Data Office Aggregator (PDOA):** It will be an aggregator of PDOs and perform the functions relating to Authorization and Accounting.
- **App Provider:** It will develop an App to register users and discover WANI compliant Wi-Fi hotspots in the nearby area and display the same within the App for accessing the internet service.

• **Central Registry:** It will maintain, in accordance with the WANI architecture and specifications, the details of App Providers, PDOAs, and PDOs. To begin with, the Central Registry will be maintained by C-DOT.

Wi-Fi Access Network Interface (WANI) ensures the interworking among systems and software applications used by these distributed entities i.e., PDOA, PDO, App Provider, and Central Registry.

1.1. DEFINITIONS, ACRONYMS AND TERMINOLOGY

1.1.1. Definitions

The definitions for the terms used in this document are listed in the Table 1-1.

Table 1-1: Definitions Used in this Document

Definition Explanation

802.11 IEEE Standards for Information Technology --Telecommunications and Information Exchange between Systems -- Local and Metropolitan Area Network Specific Requirements (ISO/IEC 8802-11: 1999)

1.1.2. Acronyms

Table 1-2: Acronyms Used in this Document

Acronyms	Explanation
MAC	Medium Access Control
SSID	Service Set Identification
Wi-Fi	Wireless Fidelity

Chapter 2.

Central Registry

The Central Registry can be accessed by opening the URL "https://pmwani.cdot.in" in any Web browser.



Figure 1- Landing Page of Central Registry

CENTRAL REGISTRY

M-WANI Central Registry × +	- 0 ×
← → C ☆ 🏔 pmwani.cdot.in/wani	९ ☆ 0 ≱ 🖯 :
PM-WANI Central Registry	सी-डॉट C-DOT
Home About PM-WANI Ecosystem FAQ Contact Us	Font Size - English -
🕒 GENERAL 🗢 I AM A WI-FI USER 🙊 I AM A PDOA 📑 I AM AN APP PROVIDER 🔿 SECURITY GUIDELINES	
Can I become both a PDOA and an App Provider?	*
What are the steps involved in becoming a PDOA or App provider?	*
Where in India can a PDOA or App Provider operate?	~
Which services are allowed under the PM-WANI framework?	×
Which services are not allowed under the PM-WANI framework?	×
Can the operation of a PDOA or an App provider be suspended for some reason?	×
What are the security conditions to be fulfilled by entities of the PM-WANI framwork?	~

Figure 2-"FAQ" Section

Scroll down to read about PM-WANI and read the Frequently Asked Questions to resolve any queries. Please contact us for any feedback or any further queries & doubts.

PM-WANI Central Registry × +			- 0 ×
← → × ☆ 🔒 pmwani.cdot.in/wani			९ ☆ ♀ ⋟ Ө :
	WANI Central R	egistry	सी-डॉट C-DOT
Home About PM-WANI Ecosystem FAQ Contact Us			Font Size - English -
FEEDBACK FORM	C-DOT BANGALORE	C-DOT DELHI	
Name	C-DOT Campus, Electronic City Phase 1, Bengaluru-560100	C-DOT Delhi Campus Mehrauli, New Delhi - 110030	
	+91-80-25119001	+91-11-26802856	
Email	pmwani@cdot.in	🖾 pmwani@cdot.in	
Subject			
Type your message here			
SEND MESSAGE			

Figure 3- "Contact Us" Section to resolve queries

Chapter 3.

PDOA/App Provider Sign-Up

To register with the Central Registry as a PDOA or an App Provider, the user has to click on the "PDOA Portal" tab or the "App Provider Portal" tab as pointed out below:



Figure 4 – Click "PDOA Portal" tab is you are a PDOA



Figure 5- Click "App Provider Portal" tab if you are an App Provider

3.1. PDOA/APP PROVIDER PORTAL PAGE

The PDOA/App Provider Portal page allows the user to complete the PDOA/App Provider registration process. It has two sections- the "Sign-up" and the "Login".

3.2. OTP BASED SIGN-UP

After completing the registration process at the Saral Sanchar Portal, click the Signup button to initiate the registration process at the Central Registry.

PM-WANI Ce	entral Registry
PDOA Login al address content assword r the captcha displayed below: Content C	Dew PDOA Signup Please signup yourself with the PM-WANI Central Registry to avail the services
Figure 6- PDC PM-WANI Ce	A Portal Page
res: address © -	New App Provider Signup
captcha displayed below: Cogeniv C Refresh	Please signup yourself with the PM-WANI Central Registry to avail the services
	PDOA Login void void void

Figure-7-App Provider Portal page

In the Sign-up tab, provide the Saral Sanchar registration number, the email-id and the mobile number of the Authorized person of contact for your company, as registered with Saral Sanchar. Click the "SIGN UP" button.

PDOA/APP PROVIDER SIGN-UP

PM-WANI C	entral Regis	try	
	PDOA required to fill all the	PDOA Signup details as provided on Saral Sanchar Portal duri	ng registration
Already a PDOA Provider	REGISTRATION NUMBER*	PMWANI	0
Please login with your registered email id and password	EMAIL ID*	Saral Sanchar Registered E-mail ID	0
	MOBILE NUMBER*	+91	1

Figure 7- PDOA Sign-up Page

ран тыском РМ-V	ANI Central Regis	stry	सी-डॉट C-DOT
	App Provider required	App Provider Signup to fill all the details as provided on Saral Sanchar Portal during registration	1 from 123456
Already an App Provider	REGISTRATION NUMBER*	PMWANI-E	
Please login with your registered email id and passwor	EMAIL ID*	Sur yes (holded in	
	MOBILE NUMBER*	+917/	
		SUBMIT	

Figure 8- Provide the registration number, email ID and mobile number. Click Submit to Proceed

An OTP will be sent on the email-id and the mobile number. You can click the Resend button if the OTP isn't received within 60 seconds.

PN	I-WANI Co	entral Regis	stry	
	OTP Verification for	n and 7	PDOA Signup	
Already a PDOA Provi	Enter OTP received on your email:	Enter Email OTP RESEND (In 52 seconds) Enter the OTP received	details as provided on Saral Sanchar Portal during regis	tration
Please login with your registered email id and p	Enter OTP received on your mobile:	Enter Mobile OTP RESEND (In 52 seconds) CONTINUE	547300 (0.486) (0.	0
		-	SIGN UP	

Figure 9 - Enter OTP for registering at Central Registry



Figure 10-OTP received on mobile and email-id

After the OTP is successfully verified, a password has to be created. Please ensure the password is sufficiently complicated as per the instructions.



Figure 11- OTP successfully verified

Create Pas	SWORD FOR
PASSWORD*	Password
RE-ENTER . PASSWORD	Re-Enter Password
	SET PASSWORD
Figure 12-	Create Password Page
Create Password set succes	ssfully. Please login with your password.
	count created successfully!. Redirecting to <u>Login Page</u> in 5 seconds
Figure 13- Pas	ssword successfully created

After the password is created, you will be redirected to the Login Page. Read the next chapter for more details.

The same procedure needs to be followed in case of App Provider Sign up

Chapter 4.

PDOA/App Provider Login

Log-in to your account by providing the authorized person's email-id and the password that was set during the Sign-Up process.

Buccess! • Successfully logged in	New PDOA Signup Please signup yourself with the PM-WANI Central Registry to avail the services
Refresh DTXsuj (7) Log IN Forgol Pasaword?	

Figure 14- Successfully logged in to PDOA Account

4.1. SESSION

Only one session can be opened with the user credentials. Please logout from the first session to open a new session (Refer Section 3.2). Session idle timeout time is 10

minutes. Depending on the browser, the session will be closed when the browser or tab is closed.

PM-WANI Ce	ntral Registry
	New PDOA Signup Please signup yourself with the PM-WANI Central Registry to avail the services

Figure 15- Only one Login session permitted at a time

4.2. LOGOUT

Logging out from an active session can be done by clicking on the top right corner. Clicking the "Log out" option will terminate the session and logout the user.



Figure.17. logout

4.3. FORGOT PASSWORD

Step 1: If password is wrong/forgotten, click "Forgot Password"

ail address:	
djena@cdot.in	0
ssword:	
	¥
er the captcha displayed be	low:
GhijqU	Refresh
w55LUq	0

Step 2: Enter the authorized person's registered e-mail ID.

	Pass	word Assistance	
Please pro	vide the email add	lress associated with your P	M-WANI account
	REGISTERED EMAIL * ADDRESS		
	c	ONTINUE	

Step 3: Enter the OTP sent to the Authorized person's registered

E-mail ID and mobile phone

Password Assistance OTP Verification for Password Reset		
Enter OTP received on your email:	762693	
	RESEND	
Enter OTP received on your mobile:	370212	
	RESEND	
	CONTINUE	

Step 4: Set the new password

Change Password

OTP verification successful. Please create a new password

PASSWORD*	
RE-ENTER * PASSWORD	

Step 5: Login with new password

Change Password

Password changed successfully. Please login with your new password.



Figure 16- Forget Password

Chapter 5.

PDOA/App Provider Certification

After OTP verification is complete and password is set, the user has to login to the PDOA/App Provider account. This opens up the Certification Page as shown below.



STATUS BAR:

This is a color-coded indicator of the status of Certification of PDOA. On logging in for the first time, the Certification Page shows the STATUS as "CERTIFICATION UPLOAD PENDING" in blue color to indicate that the Certification Form upload is pending. The color changes to yellow when the Verification of uploaded Certification Form is pending as shown in Figure.

5.1. PM-WANI CERTIFICATION PROCESS

Step 1: Download Document

Download the Certification Form by clicking the "DOWNLOAD" Button. This opens a Certification form. The questions specific to PDOA or App Provider are to be answered accurately to ensure a smooth approval of certification process. Any queries regarding the questions or other queries can be communicated to the Central Registry via e-mail.



Figure 17- Certification Page

Step 2: Upload Document

Print the filled Certification Form on your company's letterhead and get it signed by the authorized point of contact. Scan this Certification Form in pdf format and upload it. If there are any queries related to the upload process, click the information icon.

(NOTE: Certification Form for App Provider and PDOA are different. Please ensure the correct form is uploaded.)

Step 2 Upload Document
Once the form is completely filled, print on company letter head, sign and upload the form using the below button NOTE: Upload document in pdf format. Key queries related to the uploading certification can be found <u>here</u> (i)
Choose file PDOA_Certification_Form.pdf
1 UPLOAD

On uploading the Certification Form correctly, the Certification Page changes as follows:



Figure 18-Certification Page status changed to "CERTIFICATION VERIFICATION PENDING"

Step 3: Document Verification

Wait for the document verification to be done by the Central Registry. Any queries and clarity required for certifying the claims made will be communicated on the registered e-mail ID. This will take up to 7 working days. Once successfully verified and certification is granted, an email will also be sent as below:-





Hello,

Your PDOA account with registration number PMWANI-DLI-110001-PDOA000008 is PROVISIONALLY CERTIFIED on PM-WANI Central Registry

Best Regards, Admin:PM-WANI Central Registry

PM-WANI

Figure 19- Certification granted e-mail intimation

Chapter 6.

Security Certificate

After being certified, the PDOA/App Provider has to login again. The following page opens up. Please upload at least one Public Security Certificate obtained from any Certificate Authority. Please read the Help Guide and upload the security certificate as per the format specified.

≡ मुझ्ल PM-WANI	Central Registry	S PDO AGGREGATOR
중 PDOA Details	PDO Aggregator Details	Status: INPROGRESS
	Current status of the PDOA is INPROGESS. PDOA required to upload valid Security Certificate. After uploading the certificate, the functions such as Manage Access Points, Security certificate will be activated • indicates mandatory	
	COMPANY NAME	
	COMPANY ADDRESS	
	REGISTRATION NUMBER (FROM DOT)	
	CORPORATE IDENTITY NUMBER	
	AUTHORIZED MOBILE	
	AUTHORIZED E-MAIL	
	UPLOAD SECURITY CERTIFICATE* Browse No file selected.	٢
	ADD	
	Help Guide: Security Certificate Should be of type.cer 2. Ontern should be of type.cer 3. Ontern should be of format X509. 3. Spin/ Date must be greater than the present date. Security Certificate: Third Carage Mark Biologic And Carage And Biologic And Carage And Biologic And Carage And Biologic And Carage And Biolagio And Carage And Carage And Carage And Bio	

Figure 20- Security certificate has to be uploaded as per the Help Guide

(NOTE: The Status bar at the top indicates the status of the PDOA/App Provider registration. The red color indicates "INPROGRESS" state. It changes to green color to indicate "ACTIVE" state after uploading a correct Security Certificate.)

😤 PDOA Details	PDO Aggregator Details		Status: ACTIVE
Manage Security Certificate Manage Access Points	COMPANY NAME	C047 1057 4	64
	ADDRESS	Connects	
	REGISTRATION NUMBER	PARTICULAR TOTAL TOTAL CONTRACTOR	
	CORPORATE IDENTITY NUMBER	UV12050C29118MPC100005	
	EMAIL	summ&cD07.m	
	MOBILE NUMBER	7756483982	

Figure 21-Add Security Certificate obtained

NOTE: The App Provider has to add its backend server's authentication URL along with the Security Certificate. Refer Section for more details

😑 🥌 PM-WANI	Central Registry		S PDO AGGREGATOR
🛜 PDOA Details	PDO Aggregator Details		Status: INPROGRESS
	Current status of the PDOA is INPROGESS.	PDOA required to upload valid Security Certificate. After uploading the certificate, the functions such as Manage Access Points, Security certificate will be activated • Indicates mandatory	
	COMPANY NAME	CONTINUES.	
	COMPANY ADDRESS	COADD1	
	REGISTRATION NUMBER (FROM DOT)	P1055A91-0L0110001-P00A00012	
	CORPORATE IDENTITY NUMBER	L912050L9910KIPC108085	
	AUTHORIZED MOBILE	7736480/850	
	AUTHORIZED E-MAIL	margar@odet.in	
	UPLOAD SECURITY CERTIFICATE*	Browse cert.cer	0

Figure 22- PDOA account becomes Active after adding a valid Security Certificate

App Provider Details	App Provider Details		Status: INPROGRESS
	Current status of the App Provider is INPROGESS.	App Provider required to enter valid Authentication Url and upload valid Security Certificate . After uploading the certificate, Security certificate Mangement feature will be activated * indicates mandatory	
	COMPANY NAME	C0007 7557 VS	
	COMPANY ADDRESS	COADDY	
	REGISTRATION NUMBER (FROM DOT)	Platean All CLI-110001-APP000020	
	CORPORATE IDENTITY NUMBER	Unizionumeronali	
	AUTHORIZED MOBILE	94482388719	
	E-MAIL	sujadrošst.in:	
	AUTHENTICATION URL*	Enter Authentication Url. Only https url allowed	
	UPLOAD SECURITY CERTIFICATE*	Choose file No file chosen	0
		ADD	

Figure 23- App Provider Security Certificate and Auth URL

6.1. MANAGE SECURITY CERTIFICATE

This section allows the PDOA user to view, edit and add multiple Security Certificates as per the PM-WANI Guidelines.

PDOA Details					B ADD		
Manage Security Certificate							
Manage Access Points	S	ecurity Certificate I	Details				
		Expiry Date 0	Issuer DN 0	Security Algorithm 0	Key Size(Bits) 0	Certificate Type 🗘	Actions 0
		2022-11-13 15:30:28	C-Dot Certificate Authority	SHA256withRSA	2048	X509-V3	0
		1 total					

Figure 24- Manage Security Certificates Page

6.1.1. View Security Certificate

This section shows the list of the Security Certificates added by the user.

	E VIEW			🕄 ADD	
Security Certificate Deta	ils				
Expiry Date 0	Issuer DN 0	Security Algorithm 🗘	Key Size(Bits) 0	Certificate Type 🗘	Actions 0
2039-09-23 12:21:17	PortSwigger CA	SHA256withRSA	2048		2 🗇
2022-11-13 15:30:28	C-Dot Certificate Authority	SHA256withRSA	2048		2 ū
2 total					

Figure 25- List of Security Certificates uploaded by user

6.1.2. Edit Security Certificate

The Edit button can be clicked to change the security certificate.

Change Security Certificate		
Current Expiration Date	2022-11-13 15:30:28	
Upload Security Certificate *	Browse No file selected.	0
	SUBMIT	

Figure 26- Edit Security Certificate

6.1.3. Add Security Certificate

New security certificates can be added by going to the ADD tab and uploading the new file.

Add New Security Certificate	
Upload Security Certificate *	Browse No file selected.
	SUBMIT
	Success
Help Guide:	Security Certificate added Successfully
Security Certificate Guidelines: 1. Certificate should be of type .cer 2. Content should be of format X509. 3. Expiry Date must be greater than the present date	е.

Figure 27- Successfully added Security Certificate

6.1.4. Delete Security Certificate

The Delete icon can be clicked to delete the security certificate if it is required.

ecurity Certificate Det					
Funitur Data (Income DAL 0	Consulty Alasylthus A	Kou Sine (Dite) 6	Castillanta Tura (Antinu (
2029-09-22 12:21:17		Security Agorithm 🤟	Rey Size(Bits) V	Certificate Type -	
2033-03-23 12.21.17	Alert				
2022-11-13 15:30:28	C-C Confirm deletic (NOTE: Today's	on of the Security Certificate expiring adate is 2021-02-05)	g on 2022-11-13 15:30:28?		
2 total		_			
	YES	NO			

Figure 28- Confirm deletion of Security Certificate

Chapter 7.

PDOA's Access Point Management

The PDOA has to maintain the details of the Access Points deployed by the PDOs associated with it in the Central Registry. These details can be added one Access Point at a time by using the "Single Access Point" tab as described in Section. For the convenience of the PDOA, the "Bulk Upload" option is also provided as described in Section. After adding the access point details, the PDOA can view the information in the "AP Details" Section. If any Access Point detail is found to be incorrect, then that AP can be deleted as well.

The PDOA has to ensure that the Access Point details are maintained as per the following specifications:-

ATTRIBUTE	NEEDED	FORMAT
MAC ID	YES	6 Hexadecimal pairs (0 to 9, a to f, A to F) separated by: or -
SSID	YES	Alphanumeric String (min 5 to max 32 characters)
CAPTIVE PORTAL URL	YES	https URL of the Captive Portal Page
GEOLOCATION	Optional	Latitude and Longitude (in Decimal Degrees Format with max 6 decimal place accuracy) of AP's location
STATUS	YES	ACTIVE or INACTIVE
LOCATION NAME	YES	Character String
LOCATION TYPE	YES	DISTRICT
AVERAGE SPEED	Optional	Average speed offered to every user by AP. Value should in Mbps. It should be a positive integer.
FREE USAGE	Optional	Time for which access is free on the AP. If this AP offers any free band in minutes.

ATT	RIBUTE	NEEDED	FORMAT		
PAYMENT	MODES	Optional	Payment modes supported by payment gateway of CP e.g. –Cash, Coupon, Credit card, Debit card, Net banking, UPI, Wallet.		
OPERATIN	G TIME	Optional	Operational time of AP. Value should be in the format hh-hh where hh represents time between 00 and 24		
ा मा सिंह PM-WANI	Central Registry		The total count of Access Points added to the Central Registry can be seen here. (NOTE: The counter shows 0 when no APs have been added or al APs are deleted).		
 PDOA Details Manage Security Certificate 	⊙ ADD SINGLE	E AP			
Manage Access Points	Fill the Details of WANI Complaint	Access Point deployed by PDO			
Click here to open Access Points Page	* indicates mandatory field MAC ID*	Enter unique MAC ID e.g.11	1:22:33:44:55:66		

Figure 29- Manage Access Points Page

Initially the total number of Access Points present for a new PDOA is zero. When the PDOA adds the Access Point information, either using the "ADD SINGLE AP" or "BULK UPLOAD" tab, the total count of APs increases.

7.1. SINGLE ACCESS POINT

In this section, the following steps are to be taken to successfully add an access point:-

Step 1:

Ensure that the Access Point you are adding is not present previously in the Central Registry. The form will flag an error if MAC ID is already present as shown in Figure 25. If you have to update this access point information, then go to the "AP Details" tab and search for this AP by providing the MAC ID in the Search option. Delete the

AP and return to the "Add Single Access Point" tab to add the access point information.

\odot F	ADD SINGLE AP	ကို BULK UPLOAD O AP DETAILS	Total AP
Fill the Details of WANI (Complaint Access Point	: deployed by PDO	
* Indicates mandatory fie	eld		
MACI	D*	64:00:6a:60:e8:4d	(?)
SSID	*	YOUR-AP-SSID	?
CAPTIVE POR	TAL URL*	https://yourcompany.com/captiveportalpage	0
GEOLOCATION	I LATITUDE	12.972442	0
GEOLOCATION	LONGITUDE	77.580643	?
STATU	IS*	ACTIVE	~
STATE	E*	Karnataka	~
LOCATION	TYPE*	DISTRICT	~
LOCATION	NAME*	Bangalore Urban	~
AVERAGE	SPEED	10 ⑦ MBPS	
FREE US	AGE	О Э МІНИТЕS	
PAYMENT	MODES	UPI, CASH, COUPON, NET BANKING, CREDIT CARD, DEBIT CARD, WALLET	~
OPERATIN	G TIME	00 OPENING HOURS CLOSING HOURS	0
		ADD Click Add after providing RESET	

Figure 30- Giving a unique and valid MAC ID will open the Access Point form

Step 2: Start filling the form with the information of your Access Point. An example is shown below

→ ADD SINGLE AP	A BULK UPLOAD	() AP DETAILS
Fill the Details of WANI Complaint Access Po	int deployed by PDO	
* Indicates mandatory field MAC ID*	64:00:6a:60:e8:4d	0
SSID*	Enter SSID (upto 32 characters)	0
CAPTIVE PORTAL URL*	Enter https URL of the Captive Portal	0
GEOLOCATION LATITUDE	Enter the Latitude in Decimal Degree Format	0
GEOLOCATION LONGITUDE	Enter the Longitude in Decimal Degree Format	0
STATUS*	Select Status of the Access Point	~
STATE*	Select State	~
LOCATION TYPE*	DISTRICT	~
LOCATION NAME*	Select Type	~
AVERAGE SPEED	Enter average speed for each user in Mbps	MBPS
FREE USAGE	Enter free Internet usage time in minutes	MINUTES
PAYMENT MODES	Select Payment Mode	~
OPERATING TIME	00 OPENING HOURS 24	CLOSING HOURS
	ADD	

Figure 31- Completely filled Access Point Form

Please note that the fields highlighted in Green are mandatory fields and have to be filled to activate the "ADD" button. The fields highlighted in orange are optional fields and may be given. The "RESET" button can be used to reset the form to the state shown in Figure 22.

Step 3:

Click the "ADD" button. After clicking the "ADD" button, the Access Point details are successfully added. The counter will be increased by 1 as shown below.

	⊕ ADD SINGLE AP	က် BULK UPLOAD	AP DETAILS
) Manage Security Certificate			
Manage Access Points	Fill the Details of WANI Complaint Access Point deployed by PC	00	
	* Indicates mandatory field		
	MAC ID* Enter uniqu	e MAC ID e.g.11:22:33:44:55:66	0
	Or	ne Access Point added successfully	
		_	
		ок	

Figure 32- Single Access Point added successfully

Also, on trying to give the same MAC ID again, the following error will be flagged.

⊕ ADD SINGLE AP ■	م BULK UPLOAD	() AP DETAILS	Total APs: 1						
Fill the Details of WANI Complaint Access Point deployed by PDO									
* indicates mandatory field									
MAC ID*	64:00:6a:60:e8:4d		?						
	MAC ID already exists in the Central Registry. Please enter Valid and Unique MAC ID to proceed								

Figure 33- Existing MAC ID in the Central Registry will not be accepted again. Delete the entry and try again.

Please refer to Section 6.3 to view the details of the Access Point added.

7.2. BULK UPLOAD OF ACCESS POINTS

In this tab, multiple access points can be added to the Central Registry at a time. To do so, a **CSV (comma-separated values) file** has to be uploaded. The following steps have to be taken: -

Step 1: Download the sample.csv file.

Step 2: Download the Guidelines document. Read the instructions.

Step 3: Create your csv file & upload it. Please ensure that the guidelines and format is followed.

	A BULK UPLOAD	() AP DETAILS
Upload Multiple WANI Complaint Access Points' Information (in *.csv forma	t)	
Browse No file selected.		Ō
Upload the csv file containing the details of the A	ccess Points as per the format specified in t	the Guidelines document
1. Sample CSV file 2. Guidelines for Bulk Upload of Access Points 2. Guidelines for Bulk Upload of Access Points	or reference e sure you have read the Guidelines thoroug	ghly before proceeding for upload
U		

Figure 34- Bulk upload of Access Points Page

After the CSV file is uploaded by the PDOA, the file is parsed and all the incorrect entries are added to a separate CSV file. The error details and the line numbers are shown in a text file also. If any such invalid entries are seen as shown in the Figure below, please take the following steps:-

Step 1: Download the invalid entries zip file containing the aforesaid CSV file and text file.

Step 2: Close the pop-up to see the list of the correct AP details.

Step 3: Click the "ADD" button to add the correct entries to the Central Registry.

Upload Multiple WA	NI Complaint Access Points' Information (in	*.csv format)	
Browse Cor	Alert		©
Location Type 0	Locatio	Uploaded CSV File: 5000	Captive Portal URL 0
DISTRICT	DISTRIC No of Access Points with Invalid	Entries: 392	https://cdotwani.cdot.in:8000/authreqpost
DISTRICT	DISTRIC Please download the Invalid Entr	les file, rectify it and upload it again	https://cdotwani.cdot.in:8000/authreqpost
DISTRICT			https://decibel.shouut.com/onehop/wani_hv2
DISTRICT	DISTRIC NOTE:CLOSE this notification an	d Click on ADD to upload Valid Entries to the Central Registry	https://login.yspot.in/wani
DISTRICT 1 oad the zip file that	DISTRICT C AP	1F:D1:AF:C1:7B:7F SSID 34	https://www.i2e1.in/TRAI/parseToken
4,608 total			i∢ (1 2 3 4 5 >) i
	Click ADD to add the valid Acce		

Figure 35- Parsing results with total entries (yellow), correct entries (green) and incorrect entries(red)



Figure 36- Please wait for the Access Points information to be added to the Central Registry

Step 4: Open the zip file to check the reason why the entries were flagged as incorrect. The following errors are possible: -

southing () pro-						
DISTRICT	DISTRICT A	KL	29.072;68.49	4B:86:EE:DB:CB:5A	SSID 34	https://cdotwani.cdot.in:8000/authreqpost
DISTRICT	DISTRICT A	РҮ	8.81;76.6328	FA:A0:6B:D9:8D:EC	SSID-1	https://cdotwani.cdot.in:8000/authreqpost
DISTRICT	DISTRICT A	UL Add	ling Access Points to Central Registry	2C:CA:61:EB:7A:5E	SSID-2	https://decibel.shouut.com/onehop/wani_hv2
DISTRICT	DISTRICT B	AN		4E:AB:33:28:B2:0C	SSID 3	https://login.yspot.in/wani
DISTRICT	DISTRICT C	АР		1F:D1:AF:C1:7B:7F	SSID 34	https://www.i2e1.in/TRAI/parseToken

Figure 37- Successful addition of Access Points in Bulk Upload

1. Incomplete Mandatory Fields (When some mandatory field is missed)

e.g. – East Sikkim,SK,DISTRICT,27.2166;88.3333,11:16:51:C2:0C:60,SSID-3,INACTIVE,OPENBETWEEN:09-17

Above entry is missing the Captive Portal URL in the fourth field

2 Extra fields (When there are more fields than expected)

e.g. - East Sikkim,SK,DISTRICT,,https://mycompany.in/cppage,,, 27.2166; 88.3333,EC-Cf:A8:e3:ae-Dd,SSID 21,ACTIVE

There is an extra comma which increases the number of fields to more than expected.

3 Invalid Entries (When the format of the data provided is incorrect as per the Guidelines)

e.g. - Sikkim,SK,DISTRICT,http://mycompany.in/cppage, 27.2166; 88.3333,EC-Cf:A8:e3:ae-Dd,SSID 21,ACTIVE

Above entry is have http URL instead of https URL

4 Repeated MAC IDs (When the MAC ID is duplicate in the CSV file uploaded)

Extract	+					Invalid_AP_Summary_20210204_124817.zip	٩	Ξ	•••
$\langle \rangle$	۵	Location:	6 /						
Name				Size	Туре	Modified			
Invalid_	AP_List	_20210204_	124817.csv	79.7 kB	CSV docum	04 February 2021, 07:18			
ام تا میں جا		mary 2021	0204 124917 EvE	26.248	plain text d	04 Eebruary 2021, 07:19			

Figure 38- Contents of zip file

The zip file can be opened to see the enclosed text and CSV files as

Shown below:

Open 🔻	Æ		l	Invalid_A	P_	Sum ~/.(mary	_202102 .fr-klgHW(04 3	_124817.txt	Save	≡	
Invalid	Entry	at	Line	Number	:	12	for	MacId	:	55:B6:FF:1E:	DD:36		
Invalid	Entry	at	Line	Number	:	31	for	MacId	:	3A:CA:3D:2D:	FC:13		
Invalid	Entry	at	Line	Number	:	38	for	MacId	:	E6:EE:E4:8E:	E8:18		
Invalid	Entry	at	Line	Number	:	42	for	MacId	:	D8:9C:90:5F:	4D:FB		
Invalid	Entry	at	Line	Number	:	45	for	MacId	:	E3:BA:A4:EF:	D8:FC		
Invalid	Entry	at	Line	Number	:	52	for	MacId	:	A6:BF:D7:C5:	04:BA		
Invalid	Entry	at	Line	Number	:	54	for	MacId	:	EA:EE:B3:D1:	6C:E1		
Invalid	Entry	at	Line	Number	:	56	for	MacId	:	3E:FE:51:C9:	7A:C4		
Invalid	Entry	at	Line	Number	:	62	for	MacId	:	71:AB:B6:EF:	FB:EF		
Invalid	Entry	at	Line	Number	:	73	for	MacId	:	30:F4:C9:AE:	37:2C		
Invalid	Entry	at	Line	Number	:	75	for	MacId	:	F0:F0:A2:F6:	D3:C0		
Invalid	Entry	at	Line	Number	:	91	for	MacId	:	CD:81:DC:DC:	F9:C0		

Figure 39- Incorrect Entries Description

The incorrect entries are highlighted with the MAC ID and line number. These entries can be seen in the original CSV file uploaded or can be directly rectified in the CSV file present in the zip file. After rectification, this new CSV file can be uploaded again.

7.3. VIEW ACCESS POINT INFORMATION

In this section, the PDOA can view all the information of the access points it has added to the Central Registry. The default page shows latest 5 AP entries made by the PDOA. Further entries can be viewed by clicking the page numbers.

PDOA Details	⊕ ADD SI	NGLE AP	A BULK UPLOAD		① AP DETAILS
O Manage Security Certificate					
Manage Access Points	MAC ID	~	Type to filter the access points ⑦		
	MAC ID 0	SSID 0	Location Name 0	State 0	Actions 0
	64:00:6a:60:e8:4d	YOUR-AP-SSID	Bangalore Urban	КА	
	0 selected / 1 total				
			DELETE		

Figure 40- AP Details after adding single Access Point in Section 6.1

Each of these AP's details can be viewed in detail by clicking the View More icon present at the rightmost column as shown below:

⊕ ADD SI	NGLE AP	ဂု BULK UPLOAD		O AP DETAILS
MAC ID	~	Type to filter the access points ⑦		
□ MAC ID ≎	SSID 0	Location Name 0	State 0	Actions 0
23:EF:0C:3D:FE:DE	SSID-1	DISTRICT C	DD	
EE:52:DD:2A:B2:FA	SSID-1	DISTRICT C	UL	α
D8:57:DF:2E:90:8D	SSID 34	DISTRICT C	РВ	W
D 1F:D1:AF:C1:7B:7F	SSID 34	DISTRICT C	АР	α
4E:AB:33:28:B2:0C	SSID 3	DISTRICT B	AN	α
0 selected / 4,609 total				I∢ < 918 919 920 921 922 > ▶I
				Navigate to different

Figure 41- AP Details Page after Bulk Upload of 4608 Access Points in Section 6.2

	central registry			3 PDD AGGREGATOR
		Access Point Information		
PDOA Details		AVGSPEED	10	AP DETAILS
Manage Security Certificate				
Manage Access Points	MAC ID	Captive Portal URL	https://yourcompany.com //captiveportalpage	
	MAC ID :	FREEBAND	0	e : Actions :
	64:00:6a:60:e8:4d	Geolocation	12.972442,77.580643	
	0 selected / 1 total	Location Name	Bangalore Urban	1
		Location Type	DISTRICT	
		MAC ID	64:00:6a:60:e8:4d	
		OPENBETWEEN	00-24	
		PAYMENTMODES	UPI,CASH,COUPON,NET BANKING,CREDITCARD,DEBITCARD,WALLET	Click here to see more Access Points details
	View detailed attributes of the	Rating	0	
	Access Point of choice. Scroll down	SSID	YOUR-AP-SSID	
	in the pop-up to see all the details	State	КА	
		DISMISS		

Figure 42- Access Point detailed view

7.3.1. View Filtered Access Points

The Access Points can be filtered on the basis of the MAC ID, SSID, Location Name or State

↔ ADD S	SINGLE AP	က် BULK UPLOAD		① AP DETAILS	Total APs: 4
MAC ID	~	04:CC:02:7C:C5:ED ⑦			
MAC ID 0	SSID 0	Location Name 0	State 0	Actions 0	
04:CC:02:7C:C5:ED	SSID-1	DISTRICT C	GJ		
0 selected / 1 total					
		DELETE			

Figure 43- Searching by complete MAC ID of the AP will show exactly one AP since only unique MAC IDs are present in the CR

⊕ ADD SI	NGLE AP	က် BULK UPLOAD		(i) AP DETAILS	Total APs:
State	~	OR ⑦			
MAC ID 0	SSID 0	Location Name 0	State 0	Actions 0	
BA:4A:AA:D1:B1:7B	SSID 34	DISTRICT C	OR	B	
4A:DA:44:BF:09:BF	SSID-1	DISTRICT B	OR	α	
BA:CF:DC:62:F1:6E	SSID 3	DISTRICT A	OR		
B7:2F:CB:00:A9:EB	SSID 34	DISTRICT A	OR		
D4:EC:46:28:04:70	SSID 34	DISTRICT ABS	OR		
0 selected / 139 total				⊮ < 1 2 3	45 ≻ ▶I
Total	number of APs as per the filter	can be seen here DELETE			

Figure 44- Filter for State by its abbreviation

Location Name	~	East Sikkim ⑦			
MAC ID 0	SSID 0	Location Name 0	State 0	Actions 0	
No data to display					
0 selected / 0 total					
		DELETE			

Figure 45- No Access Point are found by the search filter applied

4. Select more APs by navigating to other pages

Total APs: 4609 ADD SINGLE AP 1. Select Filter Option Type to filter the access points ? 4- 2. Enter search string MAC ID 3. Select all APs or. MAC ID 0 SSID Location Name State Actions 04:CC:02:7C:C5:ED SSID-1 DISTRICT C GJ 9B:83:B0:D1:63:AF SSID 34 DISTRICT B мн 3. ...a single AP 4A:20:2B:7B:96:DE SSID 3 DISTRICT ABS HR 81:EA:2B:D0:DA:6A SSID 34 DISTRICT B AP BA:3A:DE:BA:A5:BF SSID 34 DISTRICT C UP

7.4. DELETE ACCESS POINTS

Figure 46- Steps to delete Access Point(s)

Deletion of the Access Points can be done by following the steps shown below:-

- Step 1: Select the Filter Option i.e. MAC ID/ SSID/ Location Name/ State
- **Step 2:** Enter the search string and search for the APs as per the required filter
- **Step 3:** Select all the APs in list displayed or select individual APs to be deleted.
- **Step 4:** Navigate to rest of the pages to select more APs for deletion
- **Step 5:** Verify that the correct number of APs are selected

6. Delete the selected APs - DELETE

Step 6: Click the DELETE button

	A (+)	IDD SINGLE AP	က် BULK UPLOAD		① AP DETAILS	Total APs: 4609
	State	~	ѕк 💿		1	APs count before
2. Se	elect the desired APs to b	e deleted				leieuon
	MAC ID 0	SSID 0	Location Name 0	State 0	Actions 0	
	D9:5D:D0:73:A9:E1	SSID 3	DISTRICT C	SK		
	D3:7B:B2:09:DC:FF	SSID 34	DISTRICT ABS	SK		
	41:14:CD:1B:6F:EA	SSID 3	DISTRICT ABS	ѕк		
	F4:AF:06:1B:90:BD	SSID-1	DISTRICT C	ѕк		
	AA:C9:C9:73:AF:C5	SSID-1	DISTRICT B	ѕк		
	4 selected / 128 total				i∢ < 1 2 3 4	5 > ▶
3. N two	ote the selection is as red in page 1 and two in seco	quired. In this example 4 APs, ond page		lick the DELETE button	1. Click Page 2 to se	ee more APs

Figure 47- Example of deletion: 4 APs in the State of Sikkim

A pop-up will come to confirm the deletion of the APs. Click yes to confirm and proceed for deletion.



After deletion is confirmed, a pop-up notification will be shown at the top right corner and the AP(s) will be deleted.

ral Registry		Pop-up showing successful d	eletion of APs	Access Point 4 Access Points successfully removed	
ADD SINGLE AP		က္ BULK UPLOAD		AP DETAILS Total APs: 4	605
State	~ SК	0		Total APs count reduce	d by 4
MAC ID 0	SSID 0	Location Name 0	State 0	Actions 0	
AA:C9:C9:73:AF:C5	SSID-1	DISTRICT B	SK		
EB:6F:C5:DC:C4:AA	SSID 34	DISTRICT C	SK		
4E:81:7E:FF:D6:27	SSID 34	DISTRICT B	SK		
CF:8E:B2:D7:FD:F7	SSID-1	DISTRICT A	SK		
BC:76:BE:FD:79:EB	SSID 34	DISTRICT B	SK		
0 selected /124 total	Total APs with the same filter ha	s reduced by 4 after deleting the AP	s	i∢ < 1 2 3 4 5 > ⊮i	



7.5. UPDATE ACCESS POINT INFORMATION

An Access Point's data can be updated by first deleting it from the Central Registry by following the steps mentioned in <u>Section 6.4</u>. After deleting it, it can be added in the "Add Single AP" tab as described in <u>Section 6.1</u> with the updated values.

Chapter 8.

App Provider's Authentication URL

This information has to be provided by the App Provider after getting Provisionally Certified. It has to be given along with the Security Certificate. The auth URL can be edited if it is changed, by clicking the Edit button as shown below:-

☰ International Enternation	Central Registry		D APP PROVIDER
App Provider Details	App Provider Details		Status: ACTIVE
) Certificate Mgmt.	COMPANY NAME	Coort 1657.4	
	ADDRESS	cuett	
	REGISTRATION NUMBER	Particular Dual 11 and APPORTUNE	
	CORPORATE IDENTITY NUMBER	MET 2019 UNIT COMPCTORES	
	EMAIL	Spragement as	
	MOBILE NUMBER	ESSNE'S	
	AUTHENTICATION URL		

Figure 48- Change the auth URL



Figure 49- Authentication URL successfully updated

END