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Revision History

Version	Date	Author	Reason for Change
0.1	02-11-14	C-DAC	First Draft
0.2	06-01-15	C-DAC	New features added, existing features modified
0.3	22-06-18	C-DAC	Snapshots modified

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Purpose of the Document

The SP user manual provides step-by-step instructions to Service Providers for enlistment on e-Pramaan. The document also details steps for SP login and logout once SP account has been created on e-Pramaan. SP profile management as well as addition of SP services on e-Pramaan is also detailed in the document.

Intended Audience

The intended audience for this document are the Service Providers who seek to integrate their services with e-Pramaan for providing a secure authentication mechanism to their respective users.

Comments and Suggestions

For comments, suggestions and feedback on this document, kindly email to epramaan@cdac.in.

Document Overview

This document is organized as follows:

- Chapter 1, Project Overview-This chapter provides an overview of the project objectives.
- Chapter 2, Purpose and Scope- This chapter lays out the overall scope and purpose of e-Pramaan.
- Chapter 3, SP Enlistment and Management– This chapter details the process flow for SP enlistment and management on e-Pramaan is detailed in this section.

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Abbreviations

Sr. #	Abbreviation	Full Form
1.	API	Application Programming Interface
2.	ASA	Authentication Service Agency
3.	AUA	Authentication User Agency
4.	C-DAC	Centre for Development of Advanced Computing
5.	DC	Data Center
6.	DeitY	Department of Electronics and Information Technology
7.	DR	Disaster Recovery
8.	MSDG	Mobile e-Governance Service Delivery Gateway
9.	NSDG	National e-Governance Service Delivery Gateway
10.	SP	Service Providers
11.	SSDG	State e- Governance Service Delivery Gateway
12.	SSO	Single Sign On
13.	TLS	Transport Layer Security

Standards & Conventions

- ✓ NSI/IEEE for Integration document Format

References

- ✓ e-Pramaan Standards and Specification Document version 1.2
- ✓ Functional Requirement Document(FRD) v 1.6

e-Pramaan

1. Project Overview

As a part of National e-Governance Plan (NeGP), a number of central/state government services are accessible through internet as well as through mobile devices. These applications require user authentication in order to receive the intended benefits offered by various e-Governance services. Most of the applications in e-Governance area are implemented in silos, and hence authentication mechanism also differs across various applications. Disparate authentication mechanism results in lack of uniformity, a need for different identity proofs as well as multiple login and passwords to access the services offered by various government departments. Secondly, the authentication mechanisms followed by many applications may be very weak and insecure. There should be a provision for authenticating users as well as the services accessed by these users. A mutual authentication mechanism should exist where users can be authenticated to the application, and at the same time the users remain assured that the services accessed by them are authentic ones.

e-Pramaan is a national e-Authentication framework implemented by C-DAC Mumbai for Department of Electronics and Information Technology (DeitY), Government of India. It is a comprehensive framework to authenticate users of various government services in a safe and secured manner for accessing services through both desktop and mobile platforms.

e-Pramaan is an authentication framework for the purpose of e-Authentication which leverages on State e-Governance Service Delivery Gateway (SSDG), National e-Governance Service Delivery Gateway (NSDG), Mobile Service Delivery Gateway (MSDG), Aadhaar based Authentication and numerous others to bring uniformity across various authentication mechanisms currently in use by Govt. departments. e-Pramaan will not only act as a secured channel to access various services, but will also provide various value added services including Single Sign On (SSO) and transaction auditing for existing as well as for new users of various government services.

2. e-Pramaan Purpose and Scope

e-Pramaan will provide an added layer of security along with a strong authentication mechanism for users and various government departments availing authentication services at various levels. Users and departments interested in availing the services of the e-Authentication framework should initially register themselves on e-Pramaan. Registration process for SPs is described in detail in the subsequent sections of this document. As a part of the framework, various government departments will be able to integrate with this authentication framework through offered Application Programming Interfaces (API)/ Web Service Interfaces in a smooth and convenient manner without affecting the existing architecture of the running applications.

2.1 Authentication Factors

Authentication is a process in which a user's identity is verified based on the credentials provided by the user during registration or later when (s)he modifies the profile or updates the credentials, such as a password where the assurance mechanism makes sure that "I am who I claim to be". e-Pramaan will provide various levels of authentication in the form of single or multi factor. The factors can be chosen by the departmental services on the basis of sensitivity requirements of the service. Users of e-Gov services, integrated with e-Pramaan will be termed as *SP (Service Provider) users*.

The choice of factor(s) for authentication will depend on the requirements as deemed fit by SPs. Use of additional factors will provide higher level of assurance for a safe and secure e-service experience. Multi factor is stronger than two factor which is stronger than a single factor. Government departments have an option of choosing any one or a combination of factors along with Username as per the combinations described below:

1. **Single Factor** - Any one of the following factors: Password/Digital Signature Certificate (DSC)/Biometrics.
2. **Two Factor**- Combination of any two of the following factors with the chosen single factor: Password/One Time Password (OTP) /Digital Signature Certificate (DSC)/Biometrics.
3. **Multi Factor**- Combination of any two and more of the following factors along with the chosen single factor: Password/ Digital Signature Certificate (DSC) /One Time Password (OTP) / Biometrics.

e-Pramaan shall also provide mobile based authentication mechanism for level 1, 2 and 3, apart from the standard PC based access. For level 3 authentication requiring digital certificates, the use of Proxy SIM/ Crypto SIM Card / External SD Card/Software based certificates shall be considered.

Note: In the current release password and various kind of OTP will be available for services.

e-Pramaan

3. SP Enlistment and Management

The process flow for SP registration and management on e-Pramaan is detailed in this section.

3.1 SP Enlistment and Login

This section details out the process for SP enlistment onto e-Pramaan SP portal as well as the login process for logging in to the portal after successful enlistment.

3.1.1 SP Enlistment

To provide the services through e-Pramaan, Service Provider needs to enlist itself on e-Pramaan through SP portal of e-Pramaan. Service Providers willing to enlist with e-Pramaan need to follow the below process.

- i.) Service Providers (SPs) wanting to avail e-Pramaan authentication services MUST enlist one-Pramaan SP portal using the **Sign Up** feature. An enlistment form as displayed in Figure 1 is displayed. SP needs to fill up and submit this form.

SP enlistment form contains the fields as enlisted in Table 1.

Table 1: SP Enlistment Fields and Description

Field Name	Description
User Name	Unique user name chosen by SP for logging in to e-Pramaan SP portal
Password	Password chosen by SP for logging in to e-Pramaan SP portal
Confirm Password	Repeat the password chosen by SP for logging in to e-Pramaan SP portal
Service Provider Name	Name of the Service Provider
Category Name	Category to which the SP belongs i.e. a Central department or a State
Personal Message	SP has to choose a text while registering at e-Pramaan for website verification
House Or Flat	House or flat number of SP Office
Street	Street address of SP Office
Locality	Locality of SP Office
Landmark	Landmark for locating address of SP Office
City	City name for SP office address
State	State name for SP office address
Pin code	Pin code of SP office address
Contact Person Name	Contact person name for SP
Contact Person Designation	Contact person's designation for SP
Contact Person Email	Email of the contact person for SP
Contact Person Landline	Landline number of contact person for SP
Contact Person Mobile	Mobile number of contact person for SP

Contact Person Fax	Fax number of contact person for SP
Head Of the Department	Name of SP's Head Of the Department
Head Of the Department	Designation of SP's Head Of the Department
Head of Department Email	Email of SP's Head Of the Department
Head of Department	Landline number of SP's Head Of the Department
Head Of the Department	Mobile Number of SP's Head Of the Department
Head of the Department Fax	Fax Number of SP's Head Of the Department
Digital Certificate	Digital Certificate of SP. SP has to make sure that complete root chain of the
Enter the text here	Captcha as displayed

- ii.) Only on successful submission of this form, SP will be registered on e-Pramaan SP portal. SP account will be activated by e-Pramaan administrator on receiving administrative approvals i.e. signing of MOU between C-DAC and SP. SP can send an email to epraaman@cdac.in requesting the activation of SP account once the administrative formalities are completed.
- iii.) After successful activation of SP account, SP will be able to add services to its e-Pramaan account for using the authentication services of e-Pramaan.

Department/SP Registration Form

[Download MOU](#)
[Instructions](#)

Basic Information

Username *

Password *
Password must be at least 8 to 30 characters long and must be a combination of upper case, lower case, numbers and non-alphanumeric characters excluding space character.

Confirm password *

Department Name *

Category Name *
 Central State PSU Private

Personal Message *
This Personal Message will be displayed every time you login. The site is an authentic site only if the same personal message given during registration is displayed.

Contact Person Information

Contact Person Name *

Contact Person Designation *

Contact Person Email *
Please confirm correctness of email as it will be used for verification.

Contact Person Land line *
The landline number must be 10 digit numeric including STD code without 0 prefix. E.g.: 2212345678

Contact Person Mobile

Contact Person Fax

Digital Certificate Information

No file chosen
Only .cer, .crt file type allowed.
 File size should be below 10kb.

Address Information

House or Flat *

Street *

Locality *

Landmark

City *

State *
 --Select State--

PinCode *

Head of The Department Information

HOD Name *

HOD Designation *

HOD Email *
Please confirm correctness of email as it will be used for verification.

HOD Land line *
The landline number must be 10 digit numeric including STD code without 0 prefix. E.g.: 2212345678

HOD Mobile

HOD Fax

Captcha

Enter the captcha text here *
Captcha letters are case sensitive



Figure 1: Snapshot of SP Enlistment Form

3.1.2 SP Login on e-Pramaan SP Portal

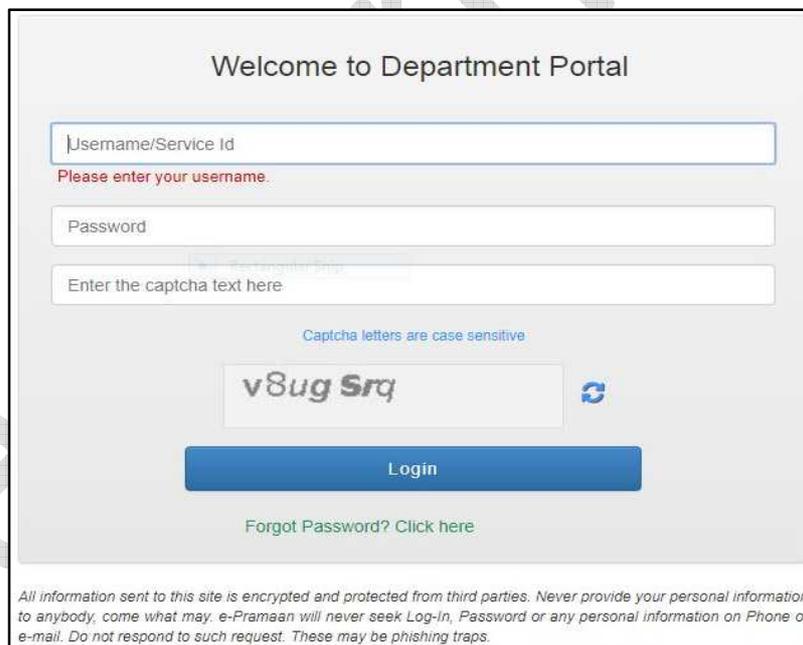
SP logs in to e-Pramaan SP portal using the **Sign In** option provided on the e-Pramaan SP portal.

- i.) SP will login using the chosen username, password and captcha. On successful data validation and credential verification, SP will be logged into respective e-Pramaan account.

The fields appearing on SP Login Form and their description have been enlisted in the following table.

Table 2: SP Login Fields and Description

Field Name	Description
User Name	Unique user name chosen by SP during registration for logging in to e-Pramaan SP portal
Password	Password for logging in to e-Pramaan SP portal
Enter the text here	Captcha as displayed



Welcome to Department Portal

Username/Service Id
Please enter your username.

Password

Enter the captcha text here

Captcha letters are case sensitive

v8ug Srq

Login

Forgot Password? Click here

All information sent to this site is encrypted and protected from third parties. Never provide your personal information to anybody, come what may. e-Pramaan will never seek Log-in, Password or any personal information on Phone or e-mail. Do not respond to such request. These may be phishing traps.

Figure 2: Snapshot of SP Login Form

3.1.3 SP Logout on e-Pramaan SP Portal

SP can log out of e-Pramaan SP portal using **Sign Out** option provided on e-Pramaan SP portal.

3.1.4 SP Forgot Password

SP can reset forgotten password by using the **Forgot Password** link on the login page by following the below process.

- i.) SP user will click on **Forgot Password** link. This will display the Forgot Password form as shown in Figure 3.
- ii.) SP user will enter the username for which to reset the password and click on **Submit** button. System will send password reset link on SP's email id.
- iii.) When the password reset link is clicked by SP user, Reset Password form is displayed as illustrated in Figure 4. SP user needs to enter values for new password and confirm password after which the new password is set.

The fields appearing on SP Forgot Password and Reset Password Forms and their description have been enlisted in the following table.

Table 3: SP Forgot Password and Reset Password Fields and Description

Field Name	Description
User Name	Username of SP for which password is required to be reset.
New Password	Password as chosen by SP during registration for logging in to e-Pramaan SP portal.
Confirm Password	Same as the new password chosen for reset.
Enter the text here	Captcha as displayed

The screenshot shows a web form titled "Forgot Your Password". It contains the following elements from top to bottom: a text input field for "Username", a text input field for "Enter the captcha text here", a small blue text note "Captcha letters are case sensitive", a captcha image displaying the characters "7xgv662" with a refresh icon to its right, and a blue "Submit" button at the bottom.

Figure 3: Snapshot of SP Forgot Password Form

The screenshot shows a web form titled "Change Your Password". It contains three text input fields: "New Password", "Confirm password", and "Enter the captcha text here". Below the captcha field, there is a captcha image displaying "8n gdz" and a refresh icon. A blue "Submit" button is located at the bottom of the form.

Figure 4: Snapshot of SP Reset Password Form

3.2 SP Profile Management

This section details out the activities involved in management of SP profile on e-Pramaan SP portal. These activities include resetting password, viewing and editing SP profile as well as adding and viewing SP services.

3.2.1 SP Reset Password

The following steps will be followed for resetting password.

- i.) SP can reset password using the **Reset Password** link under the **Manage Profile** tab after logging into respective e-Pramaan account on e-Pramaan SP portal.

The fields appearing on SP Reset Password Form and their description have been enlisted in the following table.

Table 4: SP Reset Password Fields and Description

Field Name	Description
Current Password	Current password for logging in to e-Pramaan SP portal
New Password	New password chosen by SP for logging in to e-Pramaan SP portal
Confirm password	Same as the new password chosen for reset.
Enter the text here	Captcha as displayed

- ii.) On clicking the **Reset Password** link, SP Reset Password form as illustrated in Figure 5 appears. SP is prompted to enter current password, new password, confirm password and captcha.
- iii.) On successful verification of the old password, and after syntactical and strength validation of the new password, password is reset.

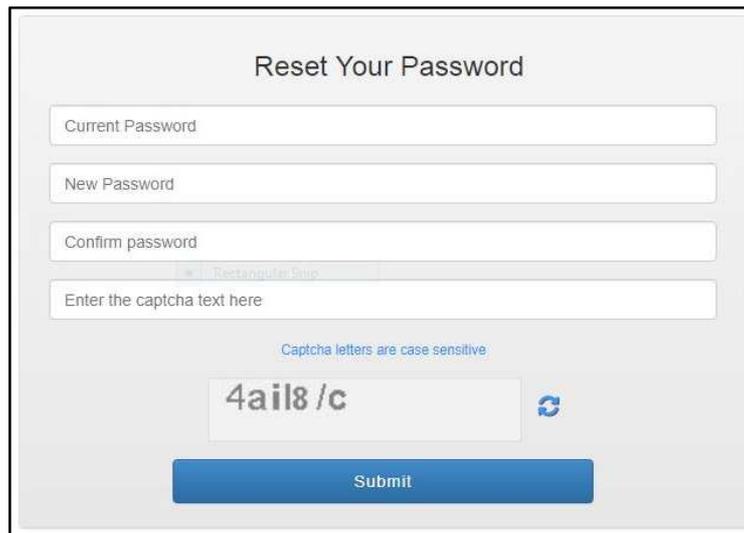


Figure 5: Snapshot of SP Reset Password

3.2.2 SP View Profile

The following steps will be followed for viewing profile on e-Pramaan SP portal.

- i.) SP can view profile by logging into e-Pramaan account and clicking on **View Profile** link under **Manage Profile** tab.
- ii.) SP may also view already registered services using the **View Services** link provided on the profile view page.
- iii.) SP may also add services to its account using the **Add Service** link provided on the profile view page.

Department/SP Profile

Basic Information		Address Information	
Username	demoSP	House or Flat	XXXX
Department Name	Central Dummy SP Do not delete	Street	XXXX
Category Name	Central + Register New SP	Locality	XXXX
State	ANDAMAN AND NICOBAR	City	mumbai
Ministry Name	Ministry of Agriculture	State	ANDAMAN AND NICOBAR
SP Certificate Serial Number	533eb15f	PinCode	XXXXXX

Contact Person Information		Head of The Department Information	
Contact Person Name	system	HOD Name	hoddept
Contact Person Designation	pe	HOD Designation	sto
Verified Email Id	epramaandemo@gmail.com ✓	Verified Email Id	epramaandemo@gmail.com ✓
Contact Person Email	XXXXXX@gmail.com ✗ Resend verification link	HOD Land line	4023475678
Contact Person Land line	4023475678		

Add Service
View Services

Figure 6: Snapshot of SP View Profile

3.2.3 SP Edit Profile

- i.) SP can update its profile by logging into e-Pramaan SP portal and clicking on **Edit Profile** link under the **Manage Profile** tab. SP Edit Profile form as illustrated in Figure 7. Table 5 lists the fields that can be updated.

Table 5: SP Edit Profile Fields and Description

Field Name	Description
Personal Message	Text entered by SP for website verification
House Or Flat	House or flat number of SP office
Street	Street address of SP office
Locality	Locality of SP office
Landmark	Landmark for locating address of SP office
City	City name for SP office address
State	State name for SP office address
Pin code	Pin code of SP office address
Contact Person Information	
Name	Name of contact person for SP
Designation	Designation of contact person for SP

New Email Id	New email id in case email Id needs to be updated
Landline	Landline number of contact person for SP
Mobile	Mobile number of contact person for SP
Fax	Fax number of contact person for SP
Head Of The Department Information	
Name	Name of SP's Head Of the Department
Designation	Designation of SP's Head Of the Department
New Email Id	New email id in case email Id needs to be updated
Landline	Landline number of SP's Head Of the Department
Mobile	Mobile Number of SP's Head Of the Department
Fax	Fax Number of SP's Head Of the Department
Digital Certificate	Digital Certificate of SP/service
Enter the text here	Captcha as displayed

- ii.) SP can update multiple fields by changing their values and clicking on **Update**. This will update all fields simultaneously.

Edit Your Profile

<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <h4 style="margin: 0;">Basic Information</h4> <p>Username demoSP</p> <p>Department Name Central Dummy SP Do not delete</p> <p>Category Name <input checked="" type="radio"/> Central <input type="radio"/> State <input type="radio"/> PSU <input type="radio"/> Private * Rectangular Sign</p> <p>Ministry Name Ministry of Agriculture</p> <p>Personal Message</p> <div style="border: 1px solid #ccc; padding: 2px; font-size: small;"> Demo Central SP This Personal Message will be displayed every time you login. The site is an authentic site only if the same personal message given during registration is displayed. </div> </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <h4 style="margin: 0;">Address Information</h4> <p>House or Flat juhu *</p> <p>Street juhu *</p> <p>Locality juhu *</p> <p>Landmark Landmark</p> <p>City Mumbai *</p> <p>State MAHARASHTRA</p> <p>PinCode 421308 *</p> </div>
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <h4 style="margin: 0;">Contact Person Information</h4> <p>Contact Person Name system *</p> <p>Contact Person Designation pe *</p> <p>Verified Email Id</p> <div style="border: 1px solid #ccc; padding: 2px; font-size: small;"> XXXXXXX@gmail.com </div> <p>Contact Person New Email epramaandemo@gmail.com</p> <p style="font-size: x-small;">Kindly enter valid E-mail Id (i.e xxx@yyy.zzz)</p> <p>Contact Person Land line 4023475678 *</p> <p style="font-size: x-small;">The landline number must be 10 digit numeric including STD code without 0 prefix. E.g.: 2212345678</p> <p>Contact Person Mobile Contact Person Mobile</p> <p>Contact Person Fax Contact Person Fax</p> </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <h4 style="margin: 0;">Head of The Department Information</h4> <p>HOD Name hoddept. *</p> <p>HOD Designation sto *</p> <p>Verified Email Id</p> <div style="border: 1px solid #ccc; padding: 2px; font-size: small;"> epramaandemo@gmail.com </div> <p>HOD New Email HOD New Email</p> <p style="font-size: x-small;">Kindly enter valid E-mail Id (i.e xxx@yyy.zzz)</p> <p>HOD Land line 4023475678 *</p> <p style="font-size: x-small;">The landline number must be 10 digit numeric including STD code without 0 prefix. E.g.: 2212345678</p> <p>HOD Mobile HOD Mobile</p> <p>HOD Fax HOD Fax</p> </div>
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <h4 style="margin: 0;">Digital Certificate Information</h4> <p>SP Certificate Serial Number 533eb15f</p> <p>Upload Digital Certificate</p> <div style="border: 1px solid #ccc; padding: 2px; font-size: small;"> Choose File No file chosen Only .cer, .crt file type allowed. File size should be below 10kb. </div> </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <h4 style="margin: 0;">Captcha</h4> <p>Enter the captcha text here *</p> <p style="font-size: x-small;">Captcha letters are case sensitive</p> <div style="border: 1px solid #ccc; padding: 5px; font-size: 2em; font-weight: bold; text-align: center;"> clynywz </div> <p style="text-align: right; font-size: small;">Refresh</p> </div>

Update

Figure 7: Snapshot of SP Edit Profile

3.2.4 Add Service

After registration and activation of account at e-Pramaan, SP will be able to add services to be integrated with e-Pramaan. Services can be added by SPs by following the below process.

- i.) SP can add services by clicking on **Manage Profile** and selecting **Add Service** link.
- ii.) SP fills up the form for Add Service with the necessary details required for the service. The fields appearing on SP Add Services Form and their description have been enlisted in the Table 6.
- iii.) SP service will be integrated with e-Pramaan and it will now be available for access through e-Pramaan.

Table 6: SP Add Service Fields and Description

Field Name	Description
Name	Name of the SP service to be added
Description	Description of SP service to be added
Service URL	Service URL of SP service to be added
Logout Success URL	Logout success URL of SP service to be added
SSO Success URL	Single Sign On success URL of SP service to be added
SLO URL	SLO URL of SP service to be added
Logout Failure URL	Logout Failure URL of SP service to be added
SSO Failure URL	SSO Failure URL of SP service to be added
User map options	Options for mapping (correlation) service using either Aadhaar number or through Service ID seeding. For details on user mapping, refer section 3.4
Authentication Type	Options for choosing type of authentication required by SP service. Authentication Types include: <ol style="list-style-type: none"> i. Password ii. OTP <ul style="list-style-type: none"> - Mobile App based OTP - Email-based OTP - SMS-based OTP
Contact Person Name	Contact person's name for SP Service
Contact Person Designation	Contact person's designation for Service
Email	Email of the contact person for Service
Contact Person Landline	Landline number of the contact person for Service

Contact Person Mobile	Mobile number of contact person for Service
Contact Person Fax	Fax number of contact person for the Service
Digital Certificate	Digital Certificate of the Service. Service has an option to use the already uploaded digital certificate i.e. a certificate uploaded during registration or if SP wants to use a different certificate for a particular service then SP can upload a digital certificate.
Enter the text here	Captcha as displayed

e-Pramaan

Service Registration Form

<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <h4 style="margin: 0;">Service Information</h4> <div style="margin-bottom: 5px;">Name *</div> <div style="margin-bottom: 5px;">Description <small>Description about the Service.</small></div> <div style="margin-bottom: 5px;">Password * <small>Password must be at least 8 to 30 characters long and must be a combination of upper case, lower case, numbers and non-alphanumeric characters excluding space character.</small></div> <div style="margin-bottom: 5px;">Confirm password *</div> <div style="margin-bottom: 5px;">Personal Message * <small>This Personal Message will be displayed every time you login. The site is an authentic site only if the same personal message given during registration is displayed.</small></div> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <h4 style="margin: 0;">Service Related Urls</h4> <p><input type="checkbox"/> Service has customized URLs. Do not populate default URLs according to Service URL.</p> <div style="margin-bottom: 5px;">Service URL * <small>Application context URL of service.</small></div> <div style="margin-bottom: 5px;">SSO Success URL * <small>SAML SSO success response consumer URL.</small></div> <div style="margin-bottom: 5px;">SSO Failure URL * <small>SAML SSO failure response consumer URL.</small></div> <div style="margin-bottom: 5px;">Logout Success URL * <small>SAML logout success response consumer URL.</small></div> <div style="margin-bottom: 5px;">Logout Failure URL * <small>SAML logout failure response consumer URL.</small></div> <div style="margin-bottom: 5px;">SLO URL * <small>SAML SLO request consumer URL.</small></div> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <h4 style="margin: 0;">Contact Person Information</h4> <div style="margin-bottom: 5px;">Contact Person Name *</div> <div style="margin-bottom: 5px;">Contact Person Designation *</div> <div style="margin-bottom: 5px;">Email * <small>Please confirm correctness of email as it will be used for verification.</small></div> <div style="margin-bottom: 5px;">Contact Person Land line * <small>The landline number must be 10 digit numeric including STD code without 0 prefix. E.g.: 2212345678</small></div> <div style="margin-bottom: 5px;">Contact Person Mobile</div> <div style="margin-bottom: 5px;">Contact Person Fax</div> </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <h4 style="margin: 0;">Service Related Configurations</h4> <div style="margin-bottom: 5px;"> <h5 style="margin: 0;">User id proof Information</h5> <p><input type="radio"/> None of them <input type="radio"/> Id proof accepted</p> </div> <div style="margin-bottom: 5px;"> <h5 style="margin: 0;">User map options</h5> <p><input type="radio"/> Aadhaar number based mapping</p> <p><input type="radio"/> Service User-ID mapping at e-Pramaan</p> <p><input type="radio"/> e-Pramaan based mapping</p> <p><input type="checkbox"/> Use Custom API</p> </div> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <h4 style="margin: 0;">Authentication Type</h4> <p><small>Please choose atleast one marked authentication type.</small></p> <p>PASSWORD <input type="checkbox"/> Text based * <input type="checkbox"/> Image based</p> <p>OTP <input type="checkbox"/> Email <input type="checkbox"/> SMS <input type="checkbox"/> Mobile app</p> <p>DSC <input type="checkbox"/> Licensed CA</p> <p>BIOMETRIC <input type="checkbox"/> Fingerprint * <input type="checkbox"/> Iris *</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <h4 style="margin: 0;">Digital Certificate Information</h4> <p><input type="checkbox"/> Yes, I agree to use existing SP user certificate</p> <p>Upload Digital Certificate</p> <p><input type="button" value="Choose File"/> No file chosen</p> <p><small>Only .cer, .pfx file type allowed. File size should be below 10kb.</small></p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <h4 style="margin: 0;">Captcha</h4> <div style="margin-bottom: 5px;">Enter the captcha text here *</div> <p><small>Captcha letters are case sensitive</small></p> <div style="border: 1px solid #ccc; padding: 5px; display: flex; align-items: center;"> prxai <input style="width: 80px; height: 30px;" type="text"/> <input style="margin-left: 10px; width: 20px; height: 20px;" type="button" value="↻"/> </div> <div style="margin-top: 10px; text-align: center;"> <input type="button" value="Submit"/> <input type="button" value="Cancel"/> </div> </div>
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Figure 8: Snapshot of SP Add Service Form

3.2.5 View Services

- i.) SP can view service details by clicking on **Manage Profile** and selecting **View Services**.
- ii.) All services registered so far will be enlisted.

iii.) SP may choose to view any service by clicking on the service name.

Registered Services

Service Name -Select Status-

Name	Id	Status	Url	User map option	
Aadhaar Card Services	100000009	A	http://10.210.0.187:8080/AadhaarDummyService/success.do	Aadhaar number based mapping	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
Demo 1	100000547	A	https://dummyservices.epramaan.in:4006/demo1	e-Pramaan based mapping	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
Demo 3	100000548	A	https://dummyservices.epramaan.in:4006/demo3	Aadhaar number based mapping	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
Demo 4	100000539	A	https://dummyservices.epramaan.in:4006/demo4	Aadhaar number based mapping	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
eDistrict Service	100000001	A	https://dummyservices.epramaan.in/eDistrictDummyService	Aadhaar number based mapping	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
ePost Office service	100000007	A	http://10.210.0.187:8080/ePostDummyService/success.do	Aadhaar number based mapping	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
Hello1	100000758	R	www.google.com	Aadhaar number based mapping	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
KunalTusharService	100000817	A	www.google.com	Aadhaar number based mapping	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
PAN or TAN Application Status Service	100000008	A	http://10.210.0.187:8080/TANDummyService/success.do	Service User-ID mapping at e-Pramaan	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>
Passport Service	100000002	A	https://dummyservices.epramaan.in/PassportDummyService	Service User-ID mapping at e-Pramaan	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="share"/>

Page 1 of (3) Total (25) records found << < > >> Page No.

Figure 9: Snapshot of SP View Services

3.3 Correlation Mechanism between SP and e-Pramaan

Correlating means mapping the user of an SP service to her (his) e-Pramaan identity. It is essential in order to grant access to SP services to a verified e-Pramaan user. This can be achieved in two ways:

- i.) Using verified Aadhaar number.
- ii.) Using the SP User-ID mapped to the e-Pramaan user.

The choice of the approaches listed above depends on the correlation mechanism chosen by the SP while registering its service on e-Pramaan. If the SP chooses to map the user using:

- i.) *Aadhaar Number* - In this scenario, the user's Aadhaar number should already exist on the SP service. When the user attempts to access SP's service for the first time, e-Pramaan will send a SAML token containing the user's Aadhaar Number and demographic information. If the Aadhaar Number exists in their system, SP grants access to its service to the e-Pramaan user.

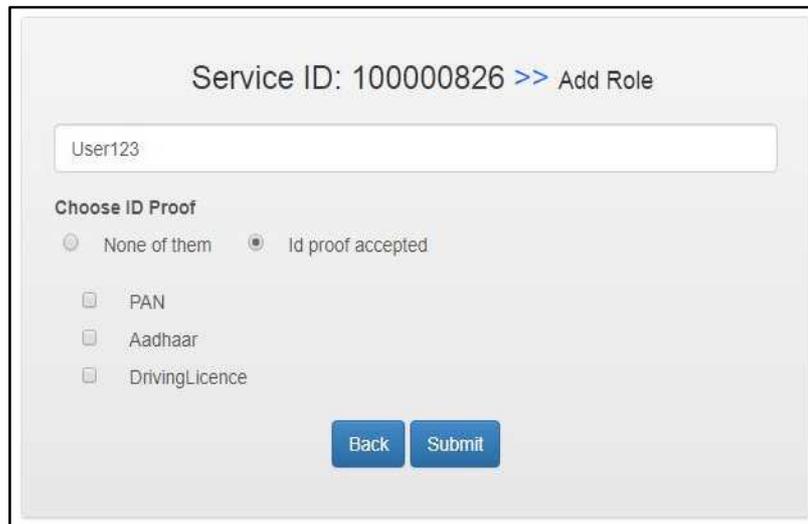
- ii.) *SP Service User-ID*– In this scenario, e-Pramaan will send one-time verification request to the SP service along with user’s e-Pramaan ID, demographic information, transaction id and source value set to “epramaan”. SP service will prompt the user to enter her SP service User-ID and password. Upon successful verification, her SP service User-ID and e-Pramaan ID will be communicated to e-Pramaan through enrolment web service (<https://up.epramaan.in/rest/epramaan/enrol/response>).e-Pramaan then stores these details for the user. Next time, when the user attempts to use the SP service, e-Pramaan sends a token containing e-Pramaan ID and SP service User-ID to the SP service.
- Alternatively, for a new user at SP service, the SP service may populate their registration form with demographic information provided by e-Pramaan. In such a case, the user will have to re-enroll for SP service at e-Pramaan.

3.4 Role Management

3.4.1 Add Role on e-Pramaan Department Portal

e-Pramaan provides a facility of assigning specific roles to some users of the service, for example, some users may be operators. This section demonstrates how to create and assign such roles through Department portal of e-Pramaan. Note that the roles are not created for the department, but for a service under the department.

- i.) To add a role on e-Pramaan Department Portal, SP user should click on **Manage Profile**, click on **View Services**.
- ii.) A list of services added by the SP will be displayed.
- iii.) Click on **Roles** link against the service for which the role is to be added.
- iv.) System displays already existing roles for the service. To add a role, click on the **Add Role** button at the bottom of the roles list.
- v.) This will display an **Add Role** form.



Service ID: 100000826 >> Add Role

User123

Choose ID Proof

None of them Id proof accepted

PAN

Aadhaar

DrivingLicence

Back Submit

Figure 10: Snapshot of Add Role Form

- vi.) Enter a role name. A role may require that the person performing the role must be verified with some ID proof. The **“None of them”** option can be selected under **Choose ID Proof** when the service does not require the Role player to have a particular ID. If the service mandates a certain set of ID proofs, at least one of them should be selected from the given list of ID proofs. Click on **Submit** to create the role.
- vii.) The newly created role can be viewed in the roles list.



Service ID: 100000826 >> Roles

Role Name	Actions	Operators
test1236	 	<input type="checkbox"/> 
Test124	 	<input type="checkbox"/> 
User123	 	<input type="checkbox"/> 

Back Add Role

Figure 11: Snapshot of Added Services List

3.4.2 Edit Role on e-Pramaan SP Portal

If SP needs to make changes to the role name, the same can be done using the "Edit" link.

- i.) To edit a role, click on **View Services** link under **Manage Profile**. A list of services added by the SP are displayed. Click on the **Roles** link against the service for which the role is required to be edited.
- ii.) Existing roles for the service are displayed. Click on the **Edit** link against the role that is to be edited.
- iii.) SP user can edit the role name. After entering the role name, click on the Save button.



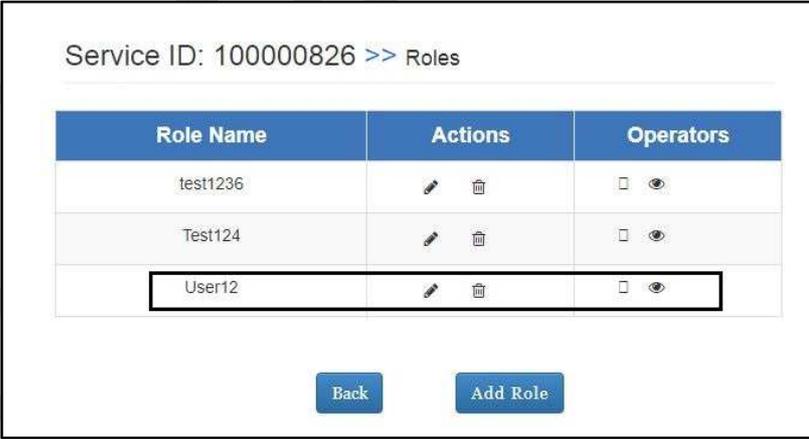
Service ID: 100000826 >> Role: User123 >> Edit Role

User12

Back Save

Figure 12: Snapshot of Edit Role Form

- iv.) Role Name is successfully updated in the system and is reflected in the roles list.



Service ID: 100000826 >> Roles

Role Name	Actions	Operators
test1236	 	<input type="checkbox"/> 
Test124	 	<input type="checkbox"/> 
User12	 	<input type="checkbox"/> 

Back Add Role

Figure 13: Snapshot of Updated Role Name

3.4.3 Delete Role on e-Pramaan SP Portal

If the role is no longer relevant to the service, it can be deleted. But before deleting the role, SP user should first delete all the operators mapped to that role.

- i.) To delete a role, click on **View Services** link under **Manage Profile**. A list of services added by the SP are displayed.
- ii.) Click on the **Roles** link against the service for which role is required to be deleted.
- iii.) Click on the **Delete** link against the role that is to be deleted.
- iv.) System prompts SP user to confirm the delete request. Click on OK upon which the role will be deleted from the system.

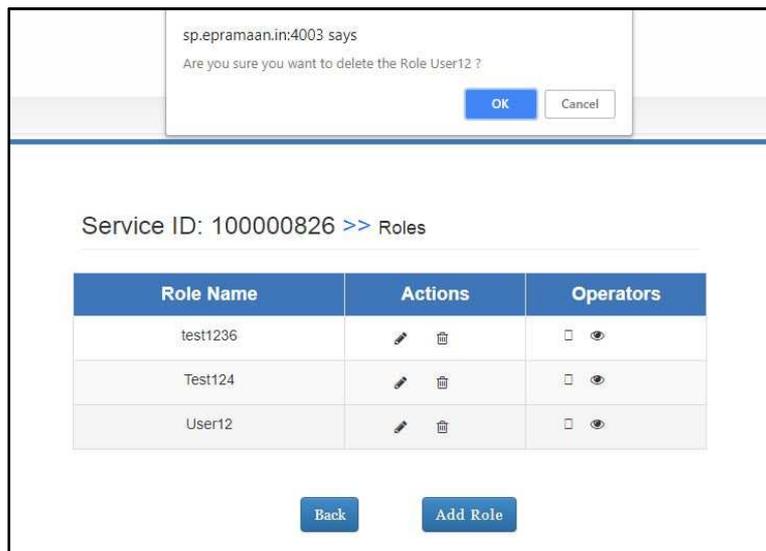


Figure 14: Snapshot of Delete Role Confirmation

3.4.4 Add Operator for a Role on e-Pramaan SP Portal

Once roles are created, operators can be assigned to them. Operators are department personnel designated to carry out specific tasks on SP portals. Before adding department personnel as operators and assigning them to roles, department personnel should be registered on e-Pramaan User Portal.

- i.) To add an operator on e-Pramaan SP Portal, SP user should click on **View Services** link under **Manage Profile**. A list of services added by the SP is displayed. SP user then needs to click on the **Roles** link against the service for which the operator is to be added.
- ii.) System displays already existing roles for the service. SP user should click on the **Add Operator** link against the role for which the operator is to be added.
- iii.) An **Add Operator** form is displayed.



Service ID: 100000826 >> Role: Test124 >> Add
Operator

Username

Choose ID Proof * No ID Proof is required for this role

Back Verify

Figure 15: Snapshot of Add Operator Form

- iv.) Enter the username of the user created on e-Pramaan User Portal. Username entered should match with the username created on e-Pramaan User Portal. An operator may be required to be verified with some ID proof. **“No ID Proof is required for this role”** text will be displayed against **Choose ID Proof** field if the service does not require the operator to be verified using an ID proof. If the service mandates that the operator be verified using an ID proof, then the **Choose ID Proof field** will display a dropdown containing the acceptable ID proofs for the service. The ID proof provided during user account creation on e-Pramaan User Portal is to be selected. In the **Enter ID Proof Value** field, enter the value of the chosen ID proof. This will be a number associated with the ID proof. E.g. Aadhaar Number, which is 12 digits, PAN, which is 10 character alphanumeric, etc.
- v.) Click on **Verify** to verify the ID proof.
- vi.) Operator is successfully added for the role.

3.4.5 View Operators for a Role on e-Pramaan SP Portal

- i.) To view all operators assigned to a role on e-Pramaan SP Portal, SP user should click on **View Services** link under **Manage Profile**. A list of services added by the SP is displayed. SP user then needs to click on the **Roles** link against the service for which the operator list is to be viewed.
- ii.) System displays already existing roles for the service. SP user should click on the **View Operator** link against the role for which the operator list is to be viewed.
- iii.) System displays all operators assigned to the role.



Username	ID Proof used	Actions
kunal123	None	

Back

Figure 16: Snapshot of Operators List

3.4.6 Delete Operator for a Role on e-Pramaan SP Portal

- i.) To delete an operator assigned to a role on e-Pramaan SP Portal, SP user should click on **View Services** link under **Manage Profile**. A list of services added by the SP is displayed. SP user then needs to click on the **Roles** link against the service for which the operator is to be deleted.
- ii.) System displays already existing roles for the service. SP user should click on the **View Operator** link against the role for which the operator is to be deleted.
- iii.) System displays all operators assigned to the role. Click on the **Delete** link against the operator, which is to be deleted.
- iv.) System prompts SP user to confirm the delete request. Click on OK upon which the operated will be deleted from the system.

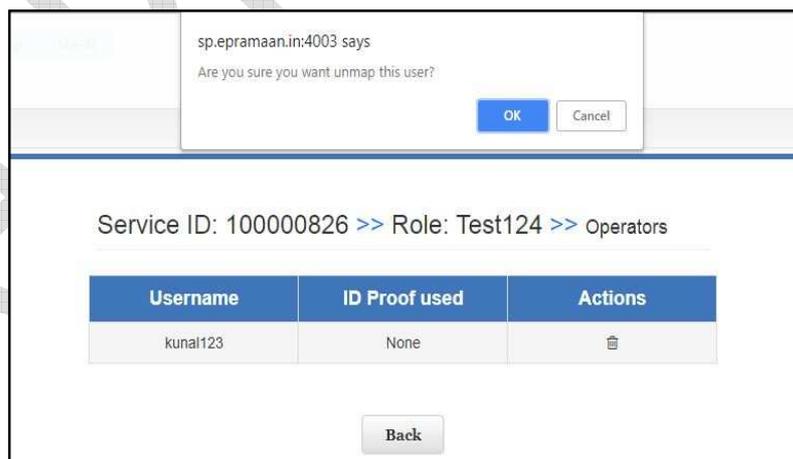


Figure 17: Snapshot of Delete Operator Confirmation