

# Ministry of Finance

O/o Pr. Chief Controller of Accounts Central Board of Indirect Taxes and Customs (Coordination, Expenditure Section) DGACR Building, I P Estate, New Delhi-110002

E-Mail: expdr-coord@gov.in

No. Pr.CCA/CBIC/Expdr-Coord/Circular-Instruction/Vol-I/2022-23/23 Dated: 19./01/2023

### CIRCULAR

Sub: - Implementation of 2<sup>nd</sup> factor biometric authentication through FIDO device in access PFMS-reg.

Please Find enclosed herewith an OM received from ACGA (Tech) PFMS O/o PFMS (HQ), O/o CGA, Ministry of Finance, Department of Expenditure, New Delhi vide OM No. V-12019/1/2020-PFMS/C.No.3028/6045 dated 29.12.2022 on the subject cited above.

All the Delhi based PAOs of CBIC are directed to strictly follow the instruction contained therein.

This issues with the approval of the Competent Authority.

### To:

- 1. Sr. AO, PAO(HQ) New Delhi
- 2. Sr. AO, PAO(DGPM/DDM), New Delhi
- 3. Sr. AO, PAO(Customs), New Delhi
- 4. Sr. AO, PAO(C.Ex), New Delhi
- 5. Sr. AO, PAO, Noida
- 6. Sr. AO, PAO, Gaziabad

### Copy to:

- 1. Sr. PS to Pr. CCA, CBIC
- 2. PS to CCA, CBIC
- 3. PA to DCA(HQ), O/o Pr CCA, CBIC
- 4. Sr. AO(Admn), CBIC
- Sr. AO (ITD) requested to upload on the ARPIT portal.

617-17-420 10:01. 2029

Thu, Dec 29, 2022 03:23 PM

## Impromentation of 2nd factor biometric authentication through FIDO device to access PFMS.

From: amit murari <amit.murari@gov.in>

Subject: Implementation of 2nd factor biometric authentication through FIDO device to

1 attachment access PFMS. To: Sh. Binod Kumar <cca-agri@gov.in>, Sandeep Tarachand Uke <st.uke@nic.in>, cca@dae.gov.in, Vanlaldina Fanai <cfc.moca@gov.in>, Vanlaldina Fanai

<vfanai@nic.in>, s.patel <s.patel@nic.in>, Rajesh Kumar MHA GOI <r\_kumar@nic.in>, dhruvkumar 1973 <dhruvkumar.1973@gov.in>, Controller Of Accounts <ca-moes@nic.in>, Arvind Kumar <arvind.kumar69@nic.in>, Chief Controller of Accounts Moef <cca.moef@nic.in>, ChiefController Accounts <ccamocf@gov.in>, A S Sandhu <asandhu@nic.in>, Bhupal Nanda <bhupal.nanda@nic.in>, S S Sagar <meapcca@mea.gov.in>, ALOK RANJAN <a.ranjan03@gov.in>, Ms Suman Bala <pcca-cbdt@gov.in>, Dr Shankari Murali ca-cbic@gov.in>, Dr(Mrs) Dr. Kavitha Gotru <kavitha.gotru@nic.in>, Dr Kavitha Gotru <cca-mohfw@nic.in>, Pr CCA Home <prcca@mha.gov.in>, Avtar Singh Sandhu <cca-mohua@gov.in>, ssharan <ssharan@nic.in>, NALIN SRIVASTAVA <nalin.shrivastava@nic.in>, Nalin Kumar Srivastva <cca.inb@nic.in>, Santosh Kumar <cca-mole@gov.in>, CCA LAW <ccamolj@gov.in>, SakeshPrasadSingh ContollerofAccount <sakesh.singh69@nic.in>, Sakesh Singh <ccasteel@nic.in>, Laboni Das <laboni.d@nic.in>, Rokhum Lalremruata <rokhum.l@nic.in>, Ram Darash Chouhan <cca-mord@gov.in>, Akhilesh Jha <cca1.dst@gov.in>, Akhilesh Jha <jha.akhilesh@gov.in>, Pr.CCA ca-ship@gov.in>

Cc: Mr Shyam Dubey <ss.dubey@nic.in>, Sajjan S Yadav <jspfs-doe@gov.in>, Jaspal Kaur <jk.pradyot@gov.in>, Sanchita Shukla <sanchita.shukla@nic.in>, Venkateshwara Chittety <cv.prasad@gov.in>, Harish Jt. CGA <a href="mailto:hsrivastava@gov.in">hsrivastava@gov.in</a>, Dipankar Sengupta <dipankar.s@nic.in</a>, Yogesh kumar Meena <yogesh.meena@nic.in>, Vijay Choudhary <vijay.choudhary82@nic.in>, Neeraj Kulhari <neeraj.kulhari@nic.in>, Anupam Raj <anupam.raj@gov.in>, Anjana Vashishtha <a.vashishtha@nic.in>, Chandan Mittal <chandan.mittal@gov.in>, Manish Raut <manish.raut@gov.in>, Vinay Muthukumar <v.muthukumar@gov.in>, RAHUL GARG <rahulg.13@gov.in>, KAUSHAL <kaushal.90@gov.in>, HEMANT GUPTA <hemu.gupta75@cbn.nic.in>, VIVEK <vivekj@nic.in>, Anupama Kumar <anukumar@nic.in>, Punit <punit@nic.in>, Rajendra Prasad <rajendra@nic.in>, Pawan Kumar <pawan.kr68@nic.in>, K.Sridharan <ksri@nic.in>, Anup Katoch <anup.katoch@gov.in>, Parveen Sethi <parveen.sethi@gov.in>, Naresh Kumar <naresh.kumar65@gov.in>, Sushil Kumar Arya <sushil.arya98@gov.in>, Birender Singh <br/>
Sirender.srawat@gov.in>, RAKESH KUMAR JAIN <rakesh.jain72@gov.in>, Atul Kansra <atul.kansra@meity.gov.in>, gera rajeev69 <gera.rajeev69@gmail.com>, Vimmi Vij <vimmi.vij@gov.in>, Seema <seema.m@nic.in>, PK Bhalla <bhalla.pk@gov.in>, Naresh Kumar <naresh.aswani@gov.in>, Pradeep Kumar Deshmukh <pk.deshmukh@gov.in>, Anil Kumar Mahendru <anil.mahendru@gov.in>, Umesh Chandra Joshi <umesh.joshi@gov.in>, Durgesh Kumar <durgesh-cgwb@gov.in>, NAVNEET CHOPRA <chopra.navneet@gov.in>, Abhishek Kumar Nigam <abhishekk.nigam@gov.in>, Sunil Kumar <sunil.kr48@gov.in>, Sunil Sharma <sunil.sharma30@nic.in>, Parul Singhal <parul.singhal@meity.gov.in>, MANOJKUMARRAINA MANOJKUMARRAINA <manojkumarraina.17@gov.in>, Dinesh Kumar <dkumar.a@nic.in>, Pawan Kumar <pawan.74@gov.in>, Dharmveer AAO <dharmveer.71@gov.in>, Pratap Singh <pratap.mnre@gov.in>, Paresh Pande <pareshpandey.17@gov.in>, Gopal Singh Rawat <gopal.rawat67@nic.in>, VinaySahrawat VinaySahrawat <vinaysahrawat.17@gov.in>, Geetanjali <geetanjali.72@nic.in>, Pankaj Kochhar <pankaj.kochhar@gov.in>, Gurvinder kaur <g.kaur77@gov.in>, KV Hamza

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614/ PX.CCA

<kv.hamza@gov.in>, Rekha Dahiya <rek.dah@gov.in>, Neeraj Kumar <neeraj.kumar@nic.in>, Anoop Kumar Mantoo <ak.mantoo@nic.in>, VINEET HANDA <vineet.handa@govcontractor.in>, Naveen Kumar <naveen.kr73@nic.in>, anjum pfms <anjum.pfms@gmail.com>, Prem Kumar <ansh.prem@gov.in>, Jitender Kumar <Jitender.Kumar53@nic.in>, Jitender Kumar <kumar.jitender@nic.in>, DeepshikhaKapoor DeepshikhaKapoor <depshikhak.17@gov.in>, Anil Amar Singh <anillamar.singh@gov.in>, NK MEHTA <mehta.nk@mea.gov.in>, Vikram Singh <vikramsingh.65@gov.in>, Rishi kapoor <rishi.kapoor46@gov.in>, Rajeev Ranjan <rajeev.ranjan17@gov.in>

### Respected Madam/Sir

Kindly find attached an OM dated 29.12.2022 regarding implementation of 2nd factor biometric authentication through FIDO device to access PFMS.

@Sr.AO (ITD): With a request to upload the OM on CGA website.

@Sr.AO, PFMS (Roll-out): With a request to upload the OM on PFMS website.

### Regards

Amit Murari Sr. Acctt. PFMS(Tech.)





Implementation of 2nd factor biometric authentication through FIDO device to access PFMS OM dated 29.12.2022.pdf

3 MB

# No V-12019/1/2020-PFMS/C.No.3028/6045 GOVERNMENT OF INDIA MINISTRY OF FINANCE DEPARTMENT OF EXPENDITURE CONTROLLER GENERAL OF ACCOUNTS PUBLIC FINANCIAL MANAGEMENT SYSTEM (HQ) 3rd Floor, Shivaji Stadium Annexe New Delhi-110001

Dated: 29/12/2022

### OFFICE MEMORENDUM

Subject: Implementation of 2<sup>nd</sup> factor biometric authentication through FIDO device to access PFMS.

To strengthen the User management process and to create another layer of security for the PFMS users, it has been decided that 2<sup>nd</sup> factor biometric authentication system through FIDO (Fast Identity online) device will be implemented in PFMS to access the system by the user in individual capacity.

- 2. In view of the above, all the Delhi based PAO users i.e. (First & second signatory user in each PAO) are directed to procure the FIDO device for implementation of biometric authentication w.e.f 01/02/2023.
- 3. The user manual and the specification of the device to be purchased along with GeM Portal Purchase link is attached at Annexure-1.
- All users are requested to procure the device by 20/01/2023 positively.
   A schedule of training session for usage of device will be shared separately.

This issues with the approval of Addl. CGA, PFMS Division.

(Rahul Garg) ACGA (Tech), PFMS

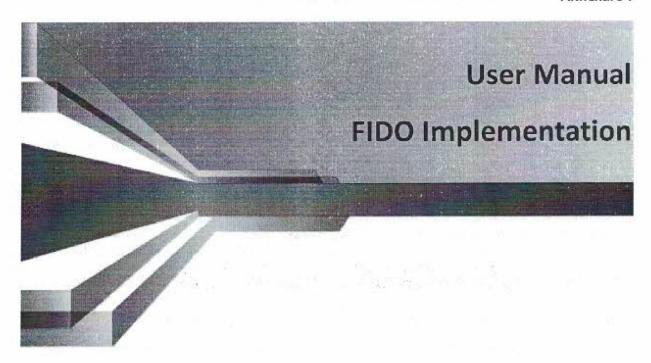
To,

1. All Pr.CCAs/CCAs/CAs with (I/C) of Ministries/Departments.

Copy for information to: -

- 1. Sr.PS to Addl.CGA, PFMS Division
- 2. PS to Addl.Secretary (PFS), D/o Expenditure
- 3. PS to Jt.CGA (JKP/CV/HS/SS), PFMS Division
- 4. DDG/Sr.TDs/TDs, NIC PFMS Division
- 5. All Dy.CGAs/ACGAs/ACAs, PFMS Division
- 6. All Sr.AOs/AOs PFMS Division
- 7. Sr.AOs ITD/PFMS for uploading on CGA/PFMS web site.

### Annexure-I



Version Draft
20 September 2021
Prepared for
PFMS, O/o
Ministry of Finance

# No V-12019/1/2020-PFMS/C.No.3028/6045 GOVERNMENT OF INDIA MINISTRY OF FINANCE DEPARTMENT OF EXPENDITURE CONTROLLER GENERAL OF ACCOUNTS PUBLIC FINANCIAL MANAGEMENT SYSTEM (HQ) 3rd Floor, Shivaji Stadium Annexe . New Delhi-110001

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   A schedule of training session for usage of device will be shared separately.

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ACGA (Tech), PFMS

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5. All Dy.CGAs/ACGAs/ACAs, PFMS Division

6. All Sr.AOs/AOs PFMS Division

Sr.AOs ITD/PFMS for uploading on CGA/PFMS web site.

### INTRODUCTION

The purpose of this document is to present all the requirements necessary for implementation of FIDO in PFMS. The document shall identify and list all the features comprising the new functionalities and developments thereby easing the subsequent design, development, and testing phases.

The implementation shall provide the user with a platform to view the status of FIDO Implementation and take related actions. The new features shall generate all the required reports. The implementation is expected to help users to have access to relevant data and complete the process with ease and in secured way.

### Abbreviations:

S. No.	Abbreviations	Definitions
1	PD	Program Division
2	DDO	Drawing & Disbursing Officer
3	PAO	Pay & Account Officer
4	PrAO	Principal Account Officer
5	CCA	Chief Controller of Accounts
6	PFMS	Public Financial Management System

### Pre-Requisite:

For the FIDO registration purpose, it is required to display the menu at the following level of the users i.e., DDO, PAO, PrAO, CCA and Root. Each user will register his/her fingerprints on the device by physical presence at the office of respective approving authority.

### **FIDO Implementation in PFMS**

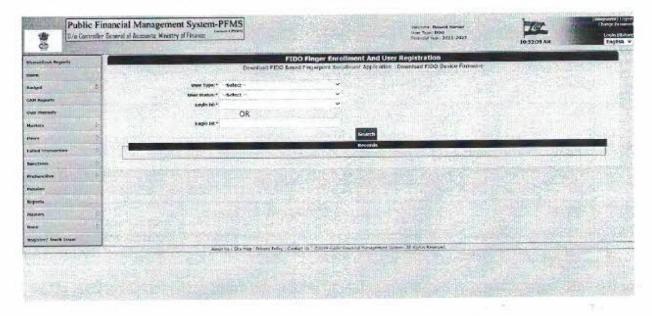
1. For PD User: No permission would be granted to PD user to register his/her fingerprint in FIDO device and FIDO Device Registration into PFMS, for the same PD need to go to his/her respective approving authority i.e., DDO. PD can only change the pin from his/her end.

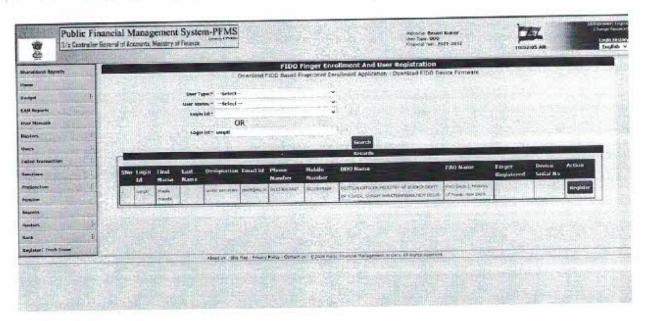
### 2. DDO User:

□ FIDO Registration: Menu → Masters → FIDO Registration

DDO will be able to see the screen and the respective PD will come in the dropdown values.

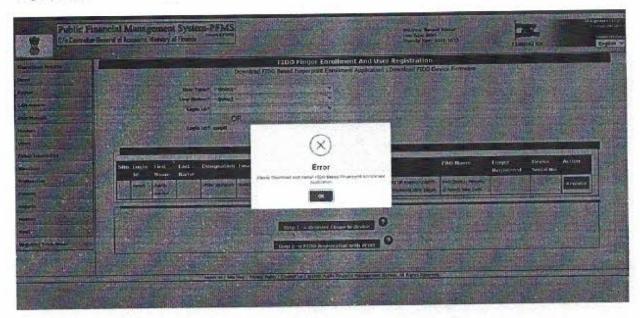
DDO need to select the User Type, User Status, and login ID of the user for which FIDO registration need to be done. After the selection of the user all the necessary details of the user will be shown on the screen in the table form with first name, last name, designation, email ID and phone number etc. The following screen will appear at DDO level:





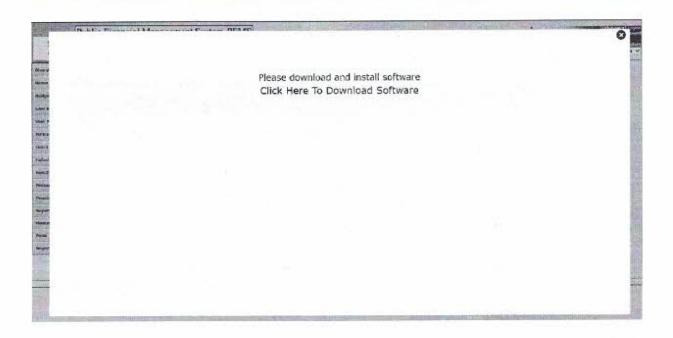
DDO need to click on the register button to do the FIDO registration. After clicking on the register button two button will come on the screen lower to the table named as Register Finger in device and FIDO Registration with PFMS.

When click on step 1 user might get an error if the application is not installed in system as shown in below screenshot, in this case user need to download and install FIDO based fingerprint enrollment application from the link mentioned above on the screen.



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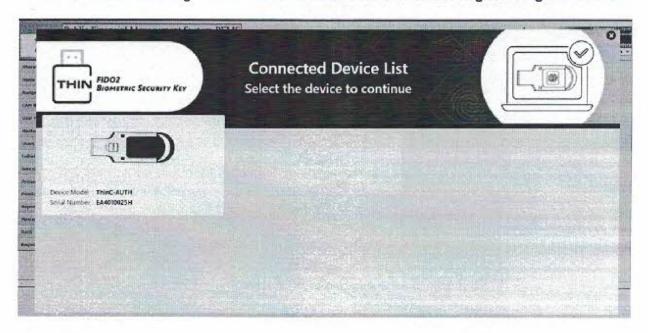
Confidential

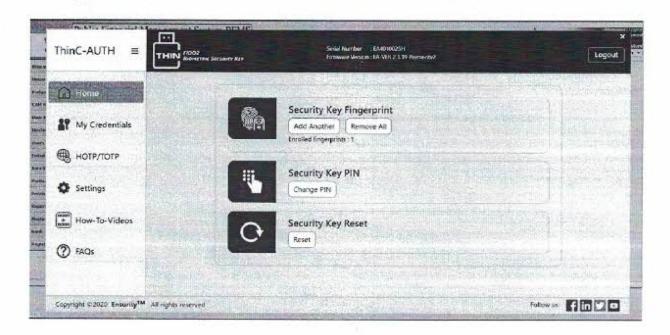


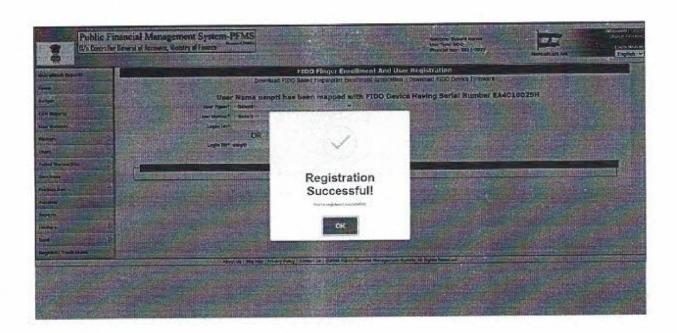
When user directly click on the step 2, user will get an error mentioning "No finger is registered into device, please register finger into device using step 1".

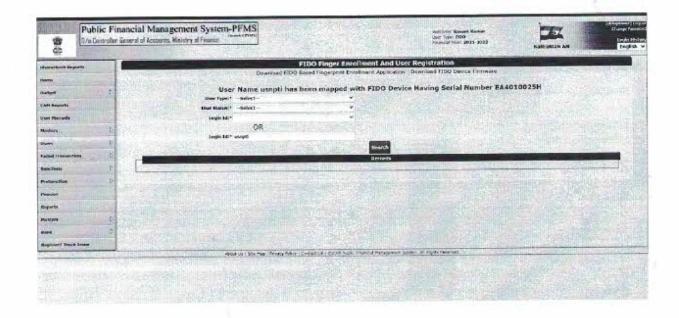


By clicking on the **Register Finger in device** button the DDO will register the Finger onto the device of the respective PD. At one time, the DDO can enroll maximum 5 fingers and without the registration of finger in the device, the **FIDO registration with PFMS** can't be done. Once the finger is registered in the device, the DDO clicks on the **FIDO registration with PFMS** button, the respective PD ID will be map to the FIDO device and PFMS portal. Then the PD can login PFMS with FIDO. Following screens will come when DDO click on the **Register Finger in device**:





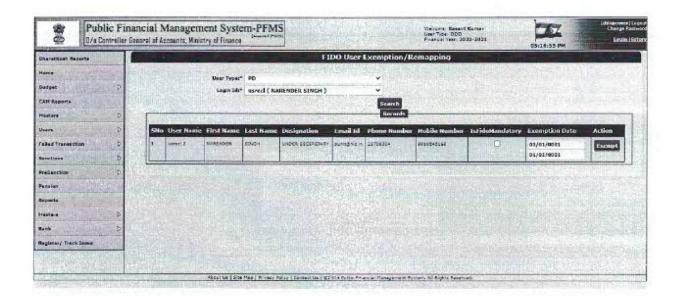


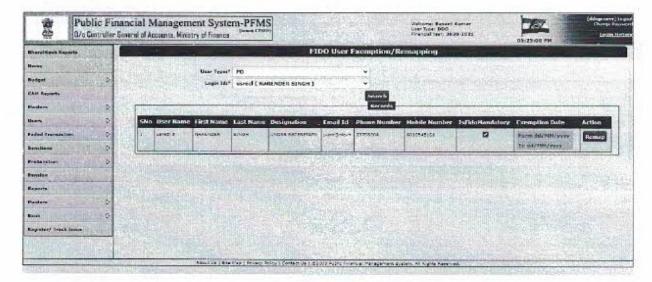


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### FIDO User Exemption: Menu → Masters → FIDO User Exemption

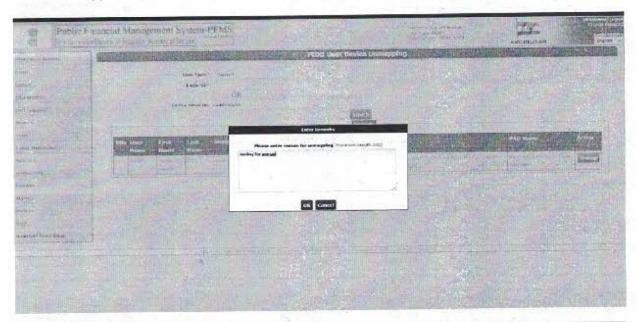
If a particular PD wants to login in PFMS without using FIDO device, then the DDO (higher authority) can give relaxation to the PD. It can be done through configuration for the particular time period and DDO needs to enter the details in the Exemption date but before entering the date DDO needs to uncheck the check box in the "Is for Mandatory" column then only PD can login into PFMS without FIDO device and the same process can be follow to **Remap** the device again but this time the "Is For Mandatory" button should be checked. The following screen will appear at DDO level:

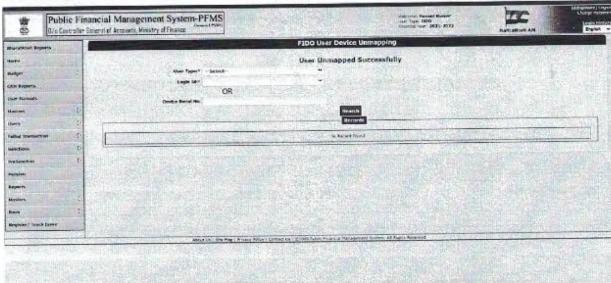




## □ FIDO Device UN-Mapping: Menu → Masters → FIDO Device UN-Mapping

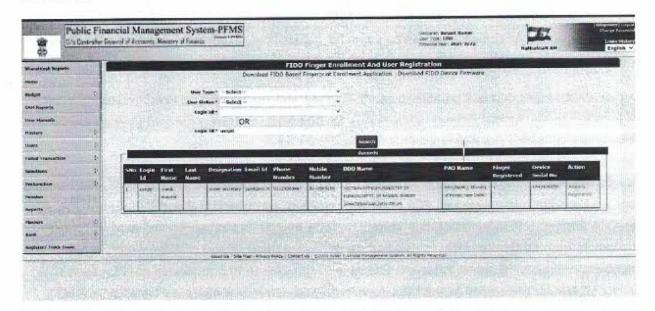
If a PD is leaving or transferred from the department and PD wants to surrender the FIDO device to the respective authority, then the respective authority has to de-register the device from PFMS and need to reset the device so that it can be issued to next joining user. The following screen will appear at DDO level:





Confidential

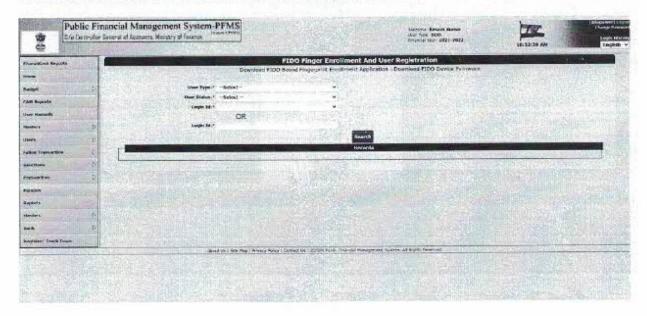
**Note:** If any approving authority will try to register the already registered device to a user an alert will come like "User Already Exist with This Device". Screenshot are attached for the reference:

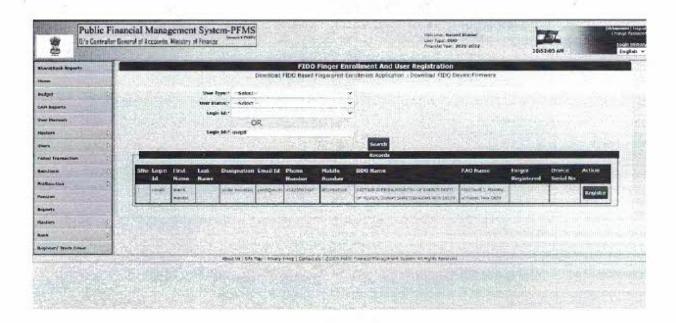




**3. For PAO User:** PAO will be able to see the screen and the respective DDO will come in the dropdown values. All the process will be same for registration, Exemption and Unmapping as mentioned above for the DDO Users.

- 4. For PrAO User: PrAO will be able to see the screen and the respective PAO will come in the dropdown values. All the process will be same for registration, Exemption and Unmapping as mentioned above for the DDO Users.
- **5. For CCA User:** CCA will be able to see the screen and the respective PrAO will come in the dropdown values. All the process will be same for registration, Exemption and Unmapping as mentioned above for the DDO Users.
- **6. For Root User:** Root user will be able to see the screen and in the dropdown of User Type root user will get two values i.e., CCA and root, it means root user has the authority to register the CCA and himself. When root user selects the CCA in User Type then Root also need to select the values from Controller, User Status and login ID drop down of the CCA for which FIDO registration need to be done. After the selection of the CCA all the necessary details of the CCA will be shown on the screen in the table form with first name, last name, designation, email ID and phone number etc. If Root user select the root in User type, then his/her own detail will come on the screen. Screenshot are attached for the reference:



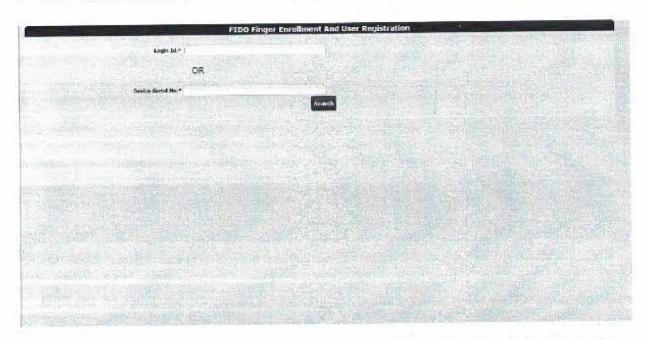


Rest the process will be same for Exemption and unmapping as mentioned above for the DDO users.

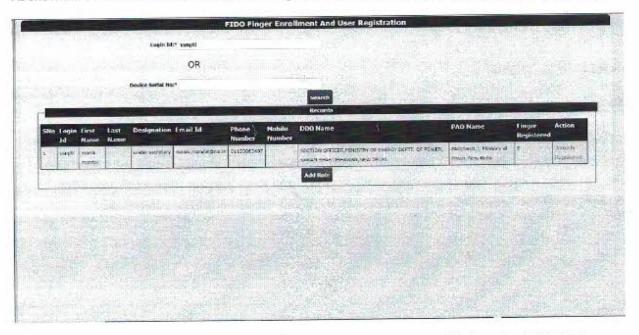
### Multiple Role Tagging:

Menu→Masters→FIDO Multi Role Registration

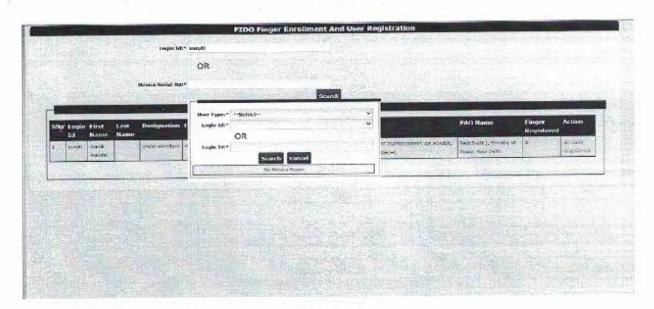
In PFMS user can be assigned with multiple roles, so new screen has been implemented for the multiple roles tagging in PFMS system. Multiple role tagging will be applicable for only those who has been already registered with FIDO. For multiple roles tagging user must approach his/her respective approving authority. Screenshots are attached for the reference.



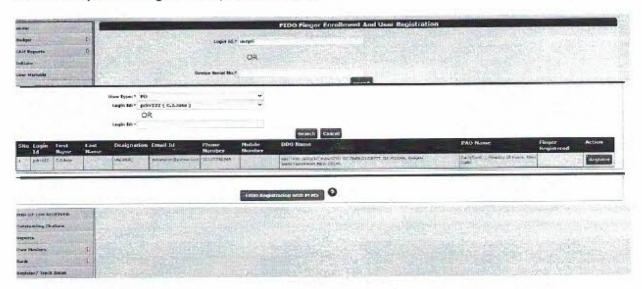
As shown in above screen user will enter the login id or device serial number for multiple roles tagging.



As shown in above screen, details will come in the grid form and user need click on the 'Add Role' button.



As shown in above screen, a pop-up will come on the screen and user need to select the details of user for which he/she is doing the multiple roles tagging.



As shown in above screen, again pop up will come mentioning the details and user needs to click on the 'Register' button so that the user can be tagged to the multiple roles. After clicking on the register button, a pop will come on the screen mentioning registration successful and after receiving this pop-up user will be successfully registered for another role.

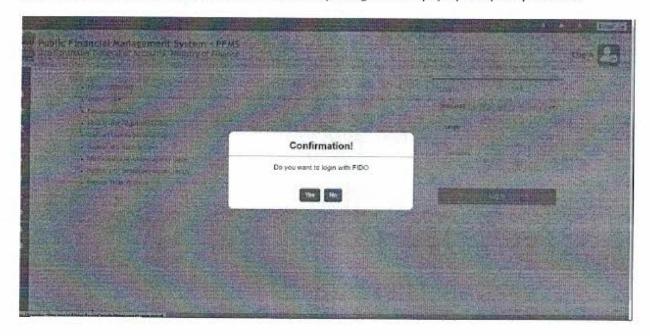




### DSC Configured User login with FIDO

If a user is authorized signatory for DSC operations. User will select Internet Explorer for sign-in to PFMS. Here if user is enrolled for FIDO, user cannot allow to login via Internet explorer as internet explorer does not support FIDO. In this case a pop-up will appear on the screen and user can select either want to go with FIDO or login without FIDO for DSC operations.

If user is enrolled for DSC operations in PFMS and try to login then a pop up will prompt for user.



The specifications and product link to purchase the device are as follows:

Product: FIDO2 Security Key (Q4 Category)

### Parameters on GeM:

a) Function: FIDO2, FIDO U2F

b) Browser: Chrome, Firefox, Edge, Safari

c) Warranty: 1 Year

**GeM Product Link:** https://mkp.gem.gov.in/fido2-security-key/ensuritys-fin-auth-fido2-biometric-security-key/p-5116877-63052101604-cat.html