Instructions for Key Pair Generation on E-Token.

To generate key pair on e-Token, drivers should be installed on the machine. You may be required to change some browser settings also. The complete process of certificate generation is given in this write-up.

Installation of e-Token Drivers:

Follow these steps to install appropriate Drivers.

- Open the Browser and go to https://nicca.nic.in
- Go to Support and click Download-Datakey Reader S/W
- Click on option **8**) (Aladdin e-Token PKI Client) and save it on desktop or any desired folder.
- Unzip this file with Winzip.
- Double click to install PKIClient-x32-4.55
- Reboot your system.

This will install e-Token Drivers and e-Token Administration Utility.

Initialize your e-Token.

- Insert e-Token in USB Port.
- Click Start→ Programs→ e-Token→ e-Token Properties. e-Token Properties Window will open. Click on Advance tab. Click on **+** Sign to expand. This will display a list of Tokens & Readers.
- Right Click on **e-Token PRO Java** and click Initialize. A new window will open. Here enter eToken Name as your name, User password as "1234" or as you desire and confirm the same and click Start. This will initialize your token and your e-Token is ready for certificate generation.

NOTE: Please remember / memorize the Token Password as this will be required at the time of certificate generation and whenever you are going to use it in your application.

1. Browser Settings

Active-X controls need to be enabled in your Internet browser. In order to ensure this, please do the following:

- Open a browser window
- Go to Tools **>>** Internet Options **>>** Security
- Click 'Custom Level' and set security level as ‘Medium’ and enable all Active-X controls

2. Enrollment Instructions - Generating Key Pair

When you enroll for a digital certificate, cryptographic keys are generated and stored on your USB Token. For generating the Key Pair on USB Token select the appropriate CSP – (**eToken Base Cryptographic Provider)**

- Open the Browser and go to https://nicca.nic.in
- Click Member Login and login with User-id / Password issued by NIC Certifying Authority
- Insert your e-Token in the USB port
- Click **Enroll** OR **Step-1** for generating your Digital Certificate key pairs. (An Electronic Form will appear, which is self-explanatory. You are required to fill in Your details as mentioned in Digital Signature Certificate Request Form and submitted to NICCA)
- **Certificate Class**: It is fixed at the time of User-id creation.
- **Certificate Type**: Select Signing Certificate.
- Do you have a certificate request already generated? Click No
- Fill in the seven mandatory fields under "**Contents of your Digital Certificate**"
- **Cryptographic Service Provider**: Select **eToken Base Cryptographic Provider.** Do not Scroll down the page with mouse wheel; it changes the selected option. To avoid this move arrow away from selected option and click left mouse-button once.
- Check all entries once again and Click Generate Request.

(A confirmatory message will be displayed on your computer screen. Read it and Click OK). At this time you will be prompted to enter Passphrase/PIN of the **eToken**.

- Enter Passphrase / PIN of the e-Token.

Your Digital Certificate key pair will be generated on **eToken**.

A request Number will also be generated and displayed on your computer screen. Please note it down for further follow up.

No need to go to Step-2.

Go to **Step-3** OR **Step-4** to view the status of your DSC Request or simply click **View Status** on the top of the page.

Once RA administrator and CA Administrators process the certificate request, your Digital certificate will be generated and authentication PIN will be sent to you on your email address.

3. Downloading Digital Certificate on E-Token

- Insert your e-Token in the USB port
- Open the Browser and go to https://nicca.nic.in
- Click Member Login and login with User-id / Password issued by NIC Certifying Authority
- Click on **View Status** - This will show the status of your DSC request. If the certificate has been generated a link will be provided on the DSC request number.
- Click on **DSC Request Number**
- Enter Authentication PIN **(Ten Digit Alphanumeric code - all CAPITAL LETTERS**) and click on Download. First Certificates of CCA and NICCA will be downloaded on your system and then your certificate will be downloaded on the e-Token.

4. Download and Install Certificate Chain

When you download your certificate on e-Token, the certificate chain is also downloaded and installed in your browser. In case you are using your certificate (e-Token) on some

other system, make sure certificate chain is also installed on that system. To download and install certificate chain follow these steps.

- Open the Browser and go to https://nicca.nic.in
- Click Certificate Chain (CCA & NICCA Certs)
- Click on Download (Left Hand Side Window pane) and Click Download Certificate Chain (,zip format). Save this file on Desktop or your desired location.
- Unzip this file with Winzip. This will display a number of files.
- Right click on **chain2 (Including nicca2 & cca2 certs). p7b** and click install certificate. This will install the certificate chain (nicca & cca certificates).

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NOTE: Until your certificate is generated and downloaded successfully, you will not be able to access these keys for use or for backup purposes. It is therefore extremely important to ensure the following until your certificate is downloaded successfully:
For e-Token Users:

- Do not format your machine
- Do not re-install or upgrade your internet browser
- Do not re-initialize the e-token

If the above conditions are not met, your keys will be lost permanently and you will not be able to download your certificate. In such cases, the only option is to apply for a fresh certificate.

Your digital certificate is related to the cryptographic keys stored on your machine (or E-Token). Hence, it's necessary for you to download the certificate onto the same machine (or e-Token) from where you enrolled for the certificate.