

Digital Signature Certificate (DSC)

Signer Service — Setup & Registration Guide

Version 4.1.7

MARCH 2026

Prepared and Presented by:
Prince Kumar, Admin E-office NRHQ

SESSION AGENDA

DSC Signer Service — Complete Setup Walkthrough for Northern Railway Officers

01

Java Installation

Install Java Runtime Environment (JRE) — pre-requisite for DSC service.

03

Start the Service

Manually launch DSC Signer Service from desktop shortcut.

05

Token Driver

Install USB token drivers (eMudhra / WD PROXKey) for physical DSC.

02

DSC Signer Server

Install DSC Signer Service executable from the downloaded bundle.

04

SSL Certificate

Configure Chrome browser to trust self-signed localhost certificate.

06

DSC Registration

Register DSC in eFile portal and configure signing preference.

Java Installation — Locating the Setup File

INSTRUCTIONS

- 1 Locate JavaSetup8u211 in the downloaded bundle (file size: ~1,996 KB)
- 2 Double-click on the Java setup .exe to launch the installer
- 3 On the Welcome screen, click Install to accept Oracle License Terms
- 4 Wait for progress bar — installation takes 1-2 minutes
- 5 Confirm 'Successfully Installed Java' message → Click Close



FIG-1 · JavaSetup8u211 in file explorer



FIG-2(a) · Java Welcome — click Install

Java Installation — Progress & Completion

IMPORTANT

Always use Java 8 (u211 or higher). Commercial use requires a separate Oracle license.

WHAT YOU WILL SEE



Installing Java...

Blue progress bar + '3 Billion Devices Run Java' banner



Installation complete

Green checkmark: 'You have successfully installed Java'



Update notifications

Windows will prompt when Java updates are available



FIG-3 · Java successfully installed

DSC Signer Server Installation — Setup Wizard

INSTALLATION STEPS

1 **DSC_Signer uploaded on northern Railway website**
<https://nr.indianrailways.gov.in/uploads/files/1748510369027-DigitalSignerServicev4.1.7WindowsInstallerx64.zip>

2 **Double-click .exe to launch installer**
 NIC-built installer for eOffice DSC signing

3 **Select destination folder**
 Default: Program Files (x86)\NIC\DSC Signer Service

4 **Click Next to proceed**
 Space required: 22.1 MB | Available: 392.1 GB

5 **Read license & click 'I Agree'**
 Ports 55100 (HTTP) & 55101 (HTTPS) will be used



FIG-4 · DSC Signer Service.exe in bundle folder

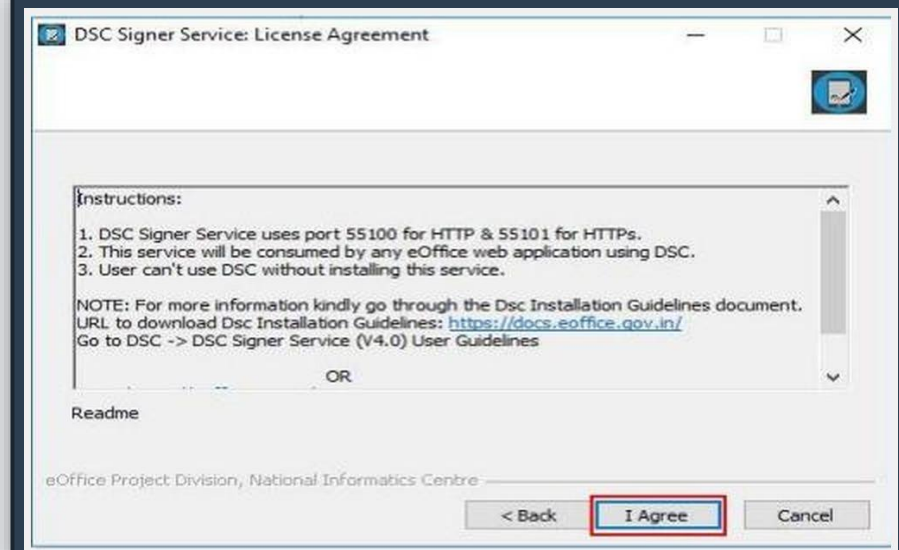


FIG-5 · Installation folder selection dialog

DSC Signer Server — License Agreement & Completion

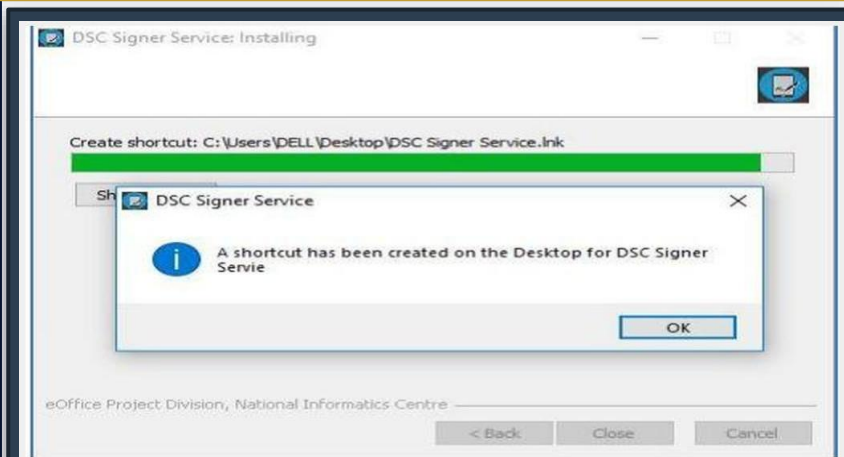


FIG-6 · License Agreement — click I Agree

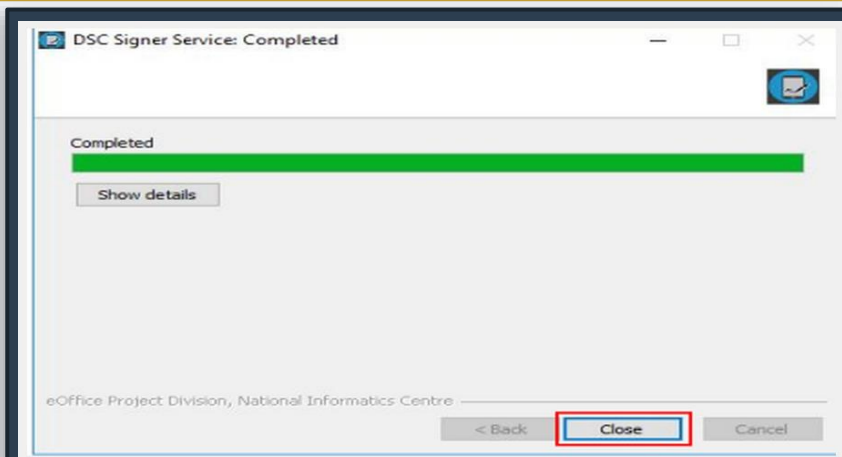


FIG-7 · Shortcut created on Desktop



FIG-8 · Installation Completed screen

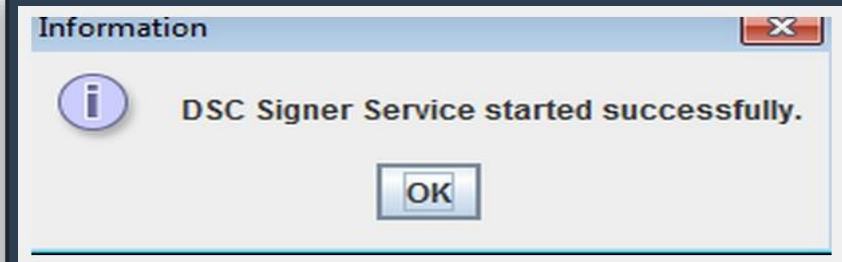


FIG-9 · DSC Signer Service desktop icon

Manually Start the DSC Signer Service

HOW TO START



Locate 'DSC Signer Service' icon on desktop

Created during Step 2 installation at C:\Users\Desktop\DSC Signer Service.lnk



Double-click the icon to start the service

A Java-based HTTPS server launches on localhost ports 55100 and 55101



Wait a few seconds for initialization

Service starts a background Windows process



Confirm popup: 'DSC Signer Service started successfully'

Click OK to dismiss the Information dialog box



Must be started before every eFile session

The service does NOT start automatically — run it before logging in

⚠ DAILY REMINDER

Start DSC Signer Service from the desktop icon BEFORE you login to eFile each day. If service is not running, digital signing will fail.

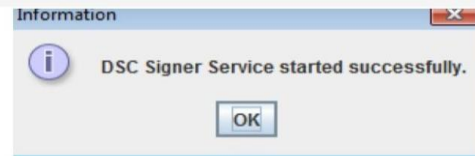


FIG-10

FIG-10 · DSC Signer Service started successfully

Add SSL Certificate in Chrome Browser

- 1 Open Chrome
→ <https://eoffsigner.eoffice.gov.v.in:55101/check/isLive>
- 2 Click Advanced →
<https://eoffsigner.eoffice.gov.in:55101/check/isLive> (Unsafe)
- 3 Confirm 'success' message on page
- 4

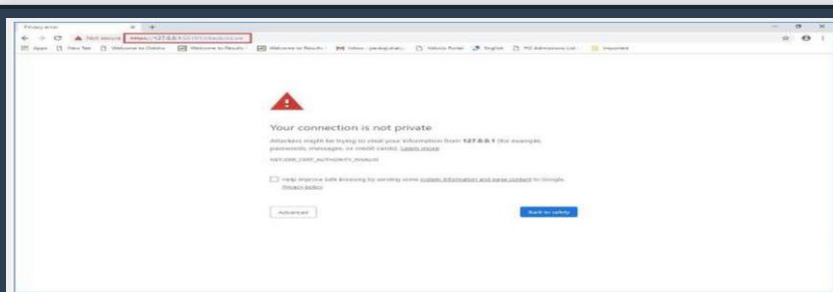


FIG-11 · Chrome privacy warning (expected)



FIG-12 · Click Proceed to 127.0.0.1 (Unsafe)

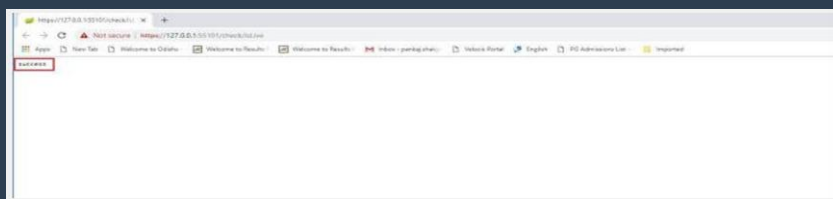


FIG-13 · Browser shows: success

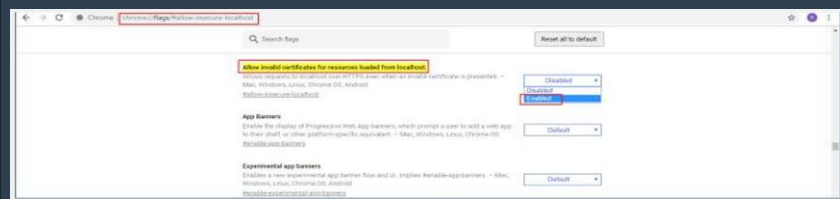


FIG-14 · chrome://flags → set Enabled

Token Driver Installation — eMudhra WD PROXKey

INSTALLATION STEPS

1

Insert DSC USB token into USB port

Windows AutoPlay popup appears for WD PROXKey

2

Click 'Open folder to view files'

Opens CD Drive (F:) WD PROXKey in Windows Explorer

3

Double-click Setup.exe (40 KB Application)

Watchdata PROXKey Token Tool installer launches

4

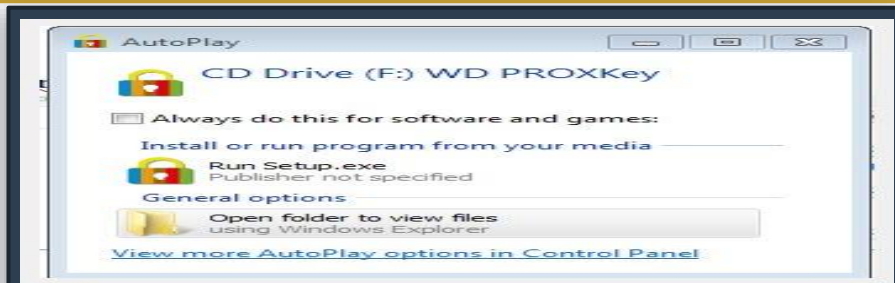
Allow all setup pop-ups and complete wizard

Confirm 'PROXKey Token Tool installed successfully'

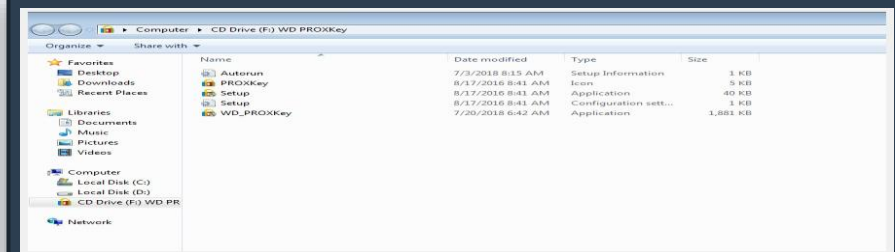
5

Click Finish and restart the system

⚠ System restart required after token driver install



TD.FIG-1 · AutoPlay: CD Drive WD PROXKey



TD.FIG-2 · WD PROXKey folder contents



TD.FIG-3 · PROXKey installed successfully

Register DSC in eFile — Login & Navigation

LOGIN STEPS

- 1 **Open e-office**
E-Office portal
- 2 **Enter Login ID — username only**
⚠ Do NOT include @nic.in or @gov.in domain suffix
- 3 **Enter Password → click Login**
The eOffice home screen appears on successful login
- 4 **Click 'File Management System'**
Available from the eOffice Services section on home screen
- 5 **In left navigation pane → click DSC**
Dropdown reveals DSC REGISTRATION option



FIG-16 • eOffice Home → File Management System

Register DSC in eFile — Registration Process

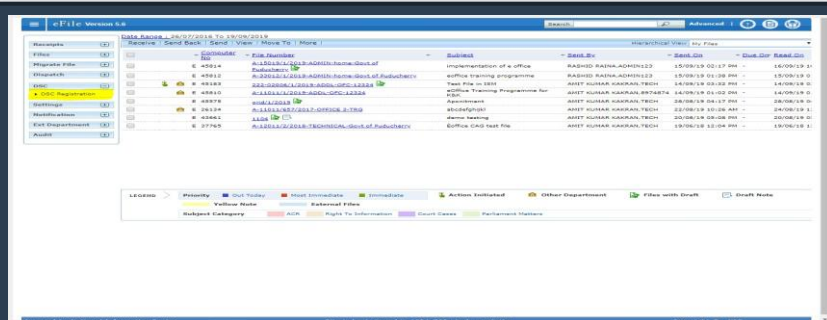


FIG-17 · Left nav → click DSC



FIG-18 · DSC REGISTRATION in dropdown



FIG-19 · Certificate Info → click Register DSC

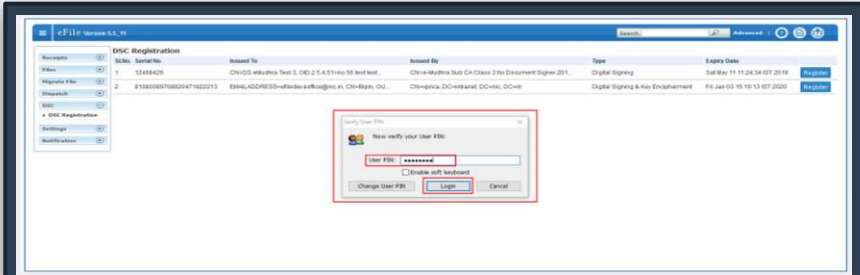


FIG-20 · DSC Registration — click Register button

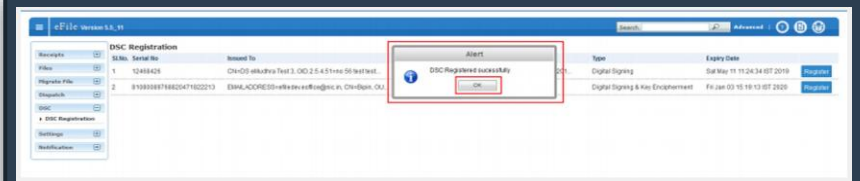


FIG-21 · Enter User PIN → click Login



HOW TO REGISTER

1. Wait for certificate list to populate on DSC Registration screen
2. Click Register button next to your certificate
3. Enter your USB token PIN → click Login

Register DSC in eFile — Signing Preference & Completion

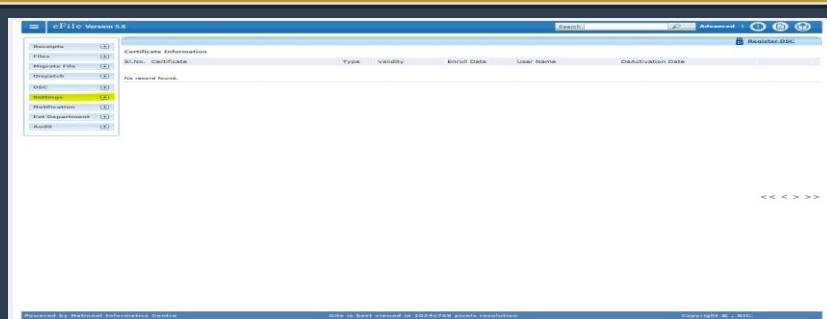


FIG-22 · Alert: DSC Registered successfully

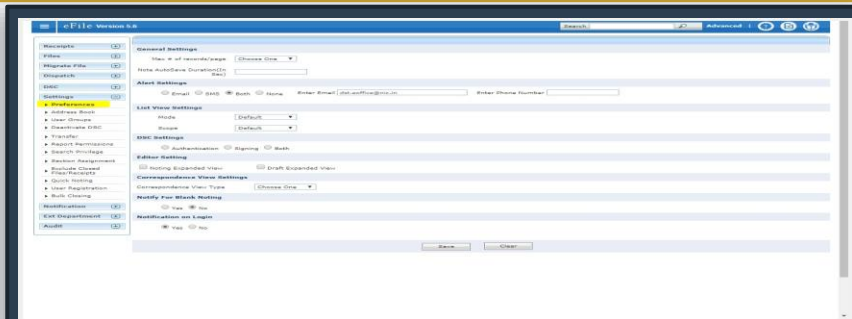


FIG-23 · Click Settings in left navigation

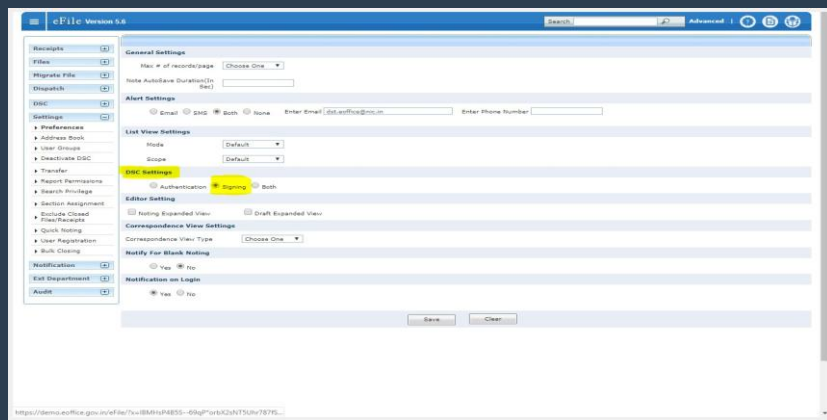


FIG-24 · Settings → Preferences page

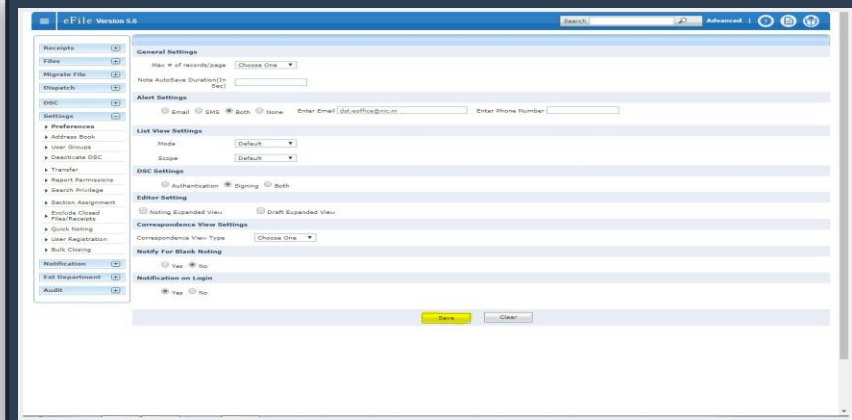


FIG-25 · DSC Settings → select 'Signing' → Save

IMPORTANT NOTES & TROUBLESHOOTING

Key reminders and common issues for Northern Railway officers using eFile DSC



Login ID Format

Enter ONLY the username in eFile — do NOT add @nic.in or @gov.in domain suffix



Chrome Browser

DSC signing functionality works exclusively on Google Chrome. Edge/Firefox not supported



NIC Support Helpdesk

<https://servicedesk.nic.in> | Toll Free: 1800-111-555 | User Guides: docs.eoffice.gov.in



Service Must Be Running First

DSC Signer Service must be manually started before every eFile login session



Port Configuration

Ensure ports 55100 & 55101 are not blocked by IT firewall, antivirus, or VPN software



DSC Re-registration

Upon DSC certificate renewal or token replacement, re-register from DSC → DSC Registration



Setup Complete!

Your DSC is now configured for digital signing in Northern Railway's eOffice platform

1

Java
Install

2

DSC Signer
Install

3

Start
Service

4

SSL
Chrome

5

Token
Driver

6

eFile
Register