SEZ Online Manual

Digital Signature Certficate [DSC]

Version 1.2

Table of Contents

1 INTRODUCTION

SEZ Online system [SOS] enables entity users (SEZ units/ Developers/ Co developers) to submit their various applications, customs transactions & compliance reports to DC's office in electronic form. As these applications and transactions consists of critical and confidential information, the SOS requires all the entity users to submit / DC users to process these applications/transactions after signing them with Digital Signature Certificate [DSC] for security reasons. These electronic requests are processed and approved by the DC's office online.

A **Digital Signature Certificate**, like hand written signature, establishes the identity of the user filing the documents through internet which user cannot revoke or deny. A **Digital Signature Certificate is not only a digital equivalent of a hand written signature** it adds extra data electronically to any message or a document where it is used to make it more authentic and more secured. Digital Signature ensures that no tampering of data is done once the document has been digitally signed. A DSC is normally valid for 1 or 2 years, after which renewal is required.

There are basically 3 types of Digital Signature Certificates Class-1, Class-2 & Class-3, each having different level of security.

Class 1: These certificates do not hold any legal validity as the validation process is based only on a valid e-mail ID and involves no direct verification.

Class 2: Here, the identity of a person is verified against a trusted, pre-verified database.

Class 3: This is the highest level where the person needs to present himself or herself in front of a Registration Authority (RA) and prove his/ her identity.

The DSCs are typically issued with one year validity and two year validity. These are renewable on expiry of the period of initial issue.

2 PROCUREMENT OF DSC

The office of Controller of Certifying Authorities [**CCA**] (www.cca.gov.in) issues certificate only to **Certifying Authorities** [**CA**] and CA issues Digital Signature Certificate to end-user. End user can approach any one of the eight CAs given below for getting Digital Signature Certificate.

I. Tata Consultancy Services (www.tcs-ca.tcs.co.in)
II. IDRBT Certifying Authority (www.idrbtca.org.in)
III. MTNL (www.mtnltrustline.com)
IV. Safescrypt (www.safescrypt.com)
V. Customs and Central Excise [iCERT] (http://icert.gov.in)
VI. (n)code (www.ncodesolutions.com)
VII. e-Mudhra (www.e-Mudhra.com)
VIII. National Informatics Center [NIC] (http://nicca.nic.in)

The detailed procedure that is required to be followed for procuring a DSC from any of the above mentioned CA can be obtained from their website. For procurement, a duly filled application form needs to be submitted to the CA along with the necessary supporting documents (Documents requirements may be checked separately with the certifying authority) and relevant charges. The CA issues DSC if, after verification of the application form and supporting documents everything is found to be in order.

SEZ Online system is compatible with **Class 2 and Class 3** levels of Digital Signature Certificates issued by above listed Certifying Authority. SOS Users like Entity Approver, Developer Approver and DC Officials should have DSC to process the requests.

3 INSTALLATION OF DSC

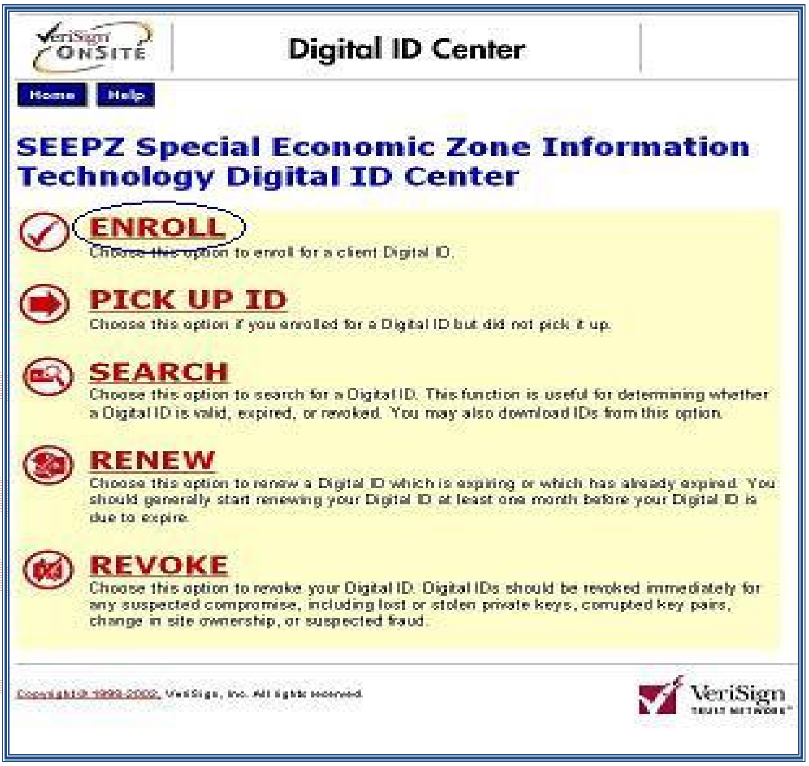
DSC is available in different forms as mentioned below:

- **PIN protected soft tokens:** The Private key is encrypted and kept on the Hard Disk in a file [**pfx** file], this file is password protected.
- **Smart Cards:** In this form, the Private Key is generated in the crypto module residing in the smart card. The key is highly secured as it doesn't leave the card, the message digest is sent inside the card for signing, and the signatures leave? the card. The card gives mobility to the key and signing can be done on any system. (*Having smart card reader*)
- **Hardware Tokens:** They are similar to smart cards in functionality as Key is generated inside the token. This Key is highly secured, highly portable and Machine Independent.

DSC installation varies according to the Certifying Authority. Considering one of them i.e **Safescrypt for PIN protected soft tokens**, as an example to demonstrate the Installation of DSC. After submission of the application, it follows **Enrollment** and **Pick up ID** procedure.

Steps to Enroll for Digital Signature Certificate:

1. Select the computer to install the digital signature.
2. Ensure that Internet Explorer version 6.0 or above, 128 Bit is installed
3. Go to https://onsite.safescrypt.com/services/SEEPZSpecialEconomicZoneInformationTechnology/digitalidCenter.htm
4. The following Menu options are displayed for Digital Signature Enrollment. Click on **ENROLL**.



SEEPZ Special Economic Zone Information Technology Digital ID Center

ENROLL
Choose this option to enroll for a client Digital ID.

PICK UP ID
Choose this option if you enrolled for a Digital ID but did not pick it up.

SEARCH
Choose this option to search for a Digital ID. This function is useful for determining whether a Digital ID is valid, expired, or revoked. You may also download IDs from this option.

RENEW
Choose this option to renew a Digital ID which is expiring or which has already expired. You should generally start renewing your Digital ID at least one month before your Digital ID is due to expire.

REVOKE
Choose this option to revoke your Digital ID. Digital IDs should be revoked immediately for any suspected compromise, including lost or stolen private keys, corrupted key pairs, change in site ownership, or suspected fraud.

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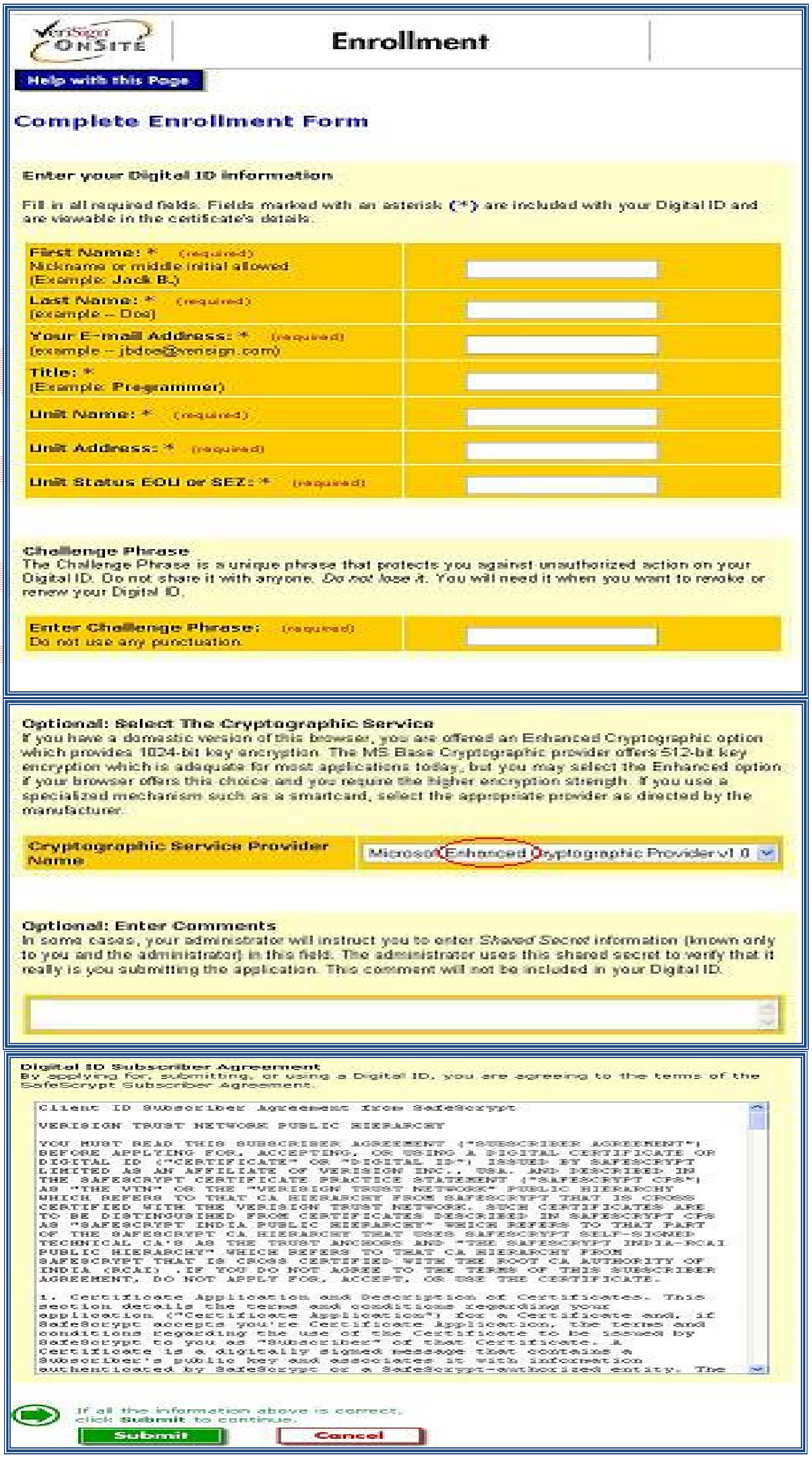
5. Fill-out the Enrollment form for individual applicant. Select ***“Microsoft Enhanced Cryptographic Provider v1.0”*** in the Service Provide list and click Submit.



Complete Enrollment Form

Enter your Digital ID information

Fill in all required fields. Fields marked with an asterisk (*) are included with your Digital ID and are viewable in the certificate's details.

First Name: * (required) Nickname or middle initial allowed (Example: Jack B.)	
Last Name: * (required) (example -- Doe)	
Your E-mail Address: * (required) (example -- jbdoe@verisign.com)	
Title: * (Example: Programmer)	
Unit Name: * (required)	
Unit Address: * (required)	
Unit Status EOU or SEZ: * (required)	

Challenge Phrase

The Challenge Phrase is a unique phrase that protects you against unauthorized action on your Digital ID. Do not share it with anyone. *Do not lose it.* You will need it when you want to revoke or renew your Digital ID.

Enter Challenge Phrase: (required) Do not use any punctuation.	

Optional: Select The Cryptographic Service

If you have a domestic version of this browser, you are offered an Enhanced Cryptographic option which provides 1024-bit key encryption. The MS Base Cryptographic provider offers 512-bit key encryption which is adequate for most applications today, but you may select the Enhanced option if your browser offers this choice and you require the higher encryption strength. If you use a specialized mechanism such as a smartcard, select the appropriate provider as directed by the manufacturer.

Cryptographic Service Provider Name	Microsoft Enhanced Cryptographic Provider v1.0

Optional: Enter Comments

In some cases, your administrator will instruct you to enter *Shared Secret* information (known only to you and the administrator) in this field. The administrator uses this shared secret to verify that it really is you submitting the application. This comment will not be included in your Digital ID.

Digital ID Subscriber Agreement

By applying for, submitting, or using a Digital ID, you are agreeing to the terms of the SafeScrypt Subscriber Agreement.

Client ID Subscriber Agreement from SafeScrypt

VERISIGN TRUST NETWORK PUBLIC HIERARCHY

YOU MUST READ THIS SUBSCRIBER AGREEMENT ("SUBSCRIBER AGREEMENT") BEFORE APPLYING FOR, ACCEPTING, OR USING A DIGITAL CERTIFICATE OR DIGITAL ID ("CERTIFICATE" OR "DIGITAL ID") ISSUED BY SAFESCRYPT LIMITED AS AN AFFILIATE OF VERISIGN INC., USA. AND DESCRIBED IN THE SAFESCRYPT CERTIFICATE PRACTICE STATEMENT ("SAFESCRYPT CPS") AS "THE VTN" OR THE "VERISIGN TRUST NETWORK" PUBLIC HIERARCHY WHICH REFERS TO THAT CA HIERARCHY FROM SAFESCRYPT THAT IS CROSS CERTIFIED WITH THE VERISIGN TRUST NETWORK. SUCH CERTIFICATES ARE TO BE DISTINGUISHED FROM CERTIFICATES DESCRIBED IN SAFESCRYPT CPS AS "SAFESCRYPT INDIA PUBLIC HIERARCHY" WHICH REFERS TO THAT PART OF THE SAFESCRYPT CA HIERARCHY THAT USES SAFESCRYPT SELF-SIGNED TECHNICAL CA'S AS THE TRUST ANCHORS AND "THE SAFESCRYPT INDIA-RCAI PUBLIC HIERARCHY" WHICH REFERS TO THAT CA HIERARCHY FROM SAFESCRYPT THAT IS CROSS CERTIFIED WITH THE ROOT CA AUTHORITY OF INDIA (RCAI) .IF YOU DO NOT AGREE TO THE TERMS OF THIS SUBSCRIBER AGREEMENT, DO NOT APPLY FOR, ACCEPT, OR USE THE CERTIFICATE.

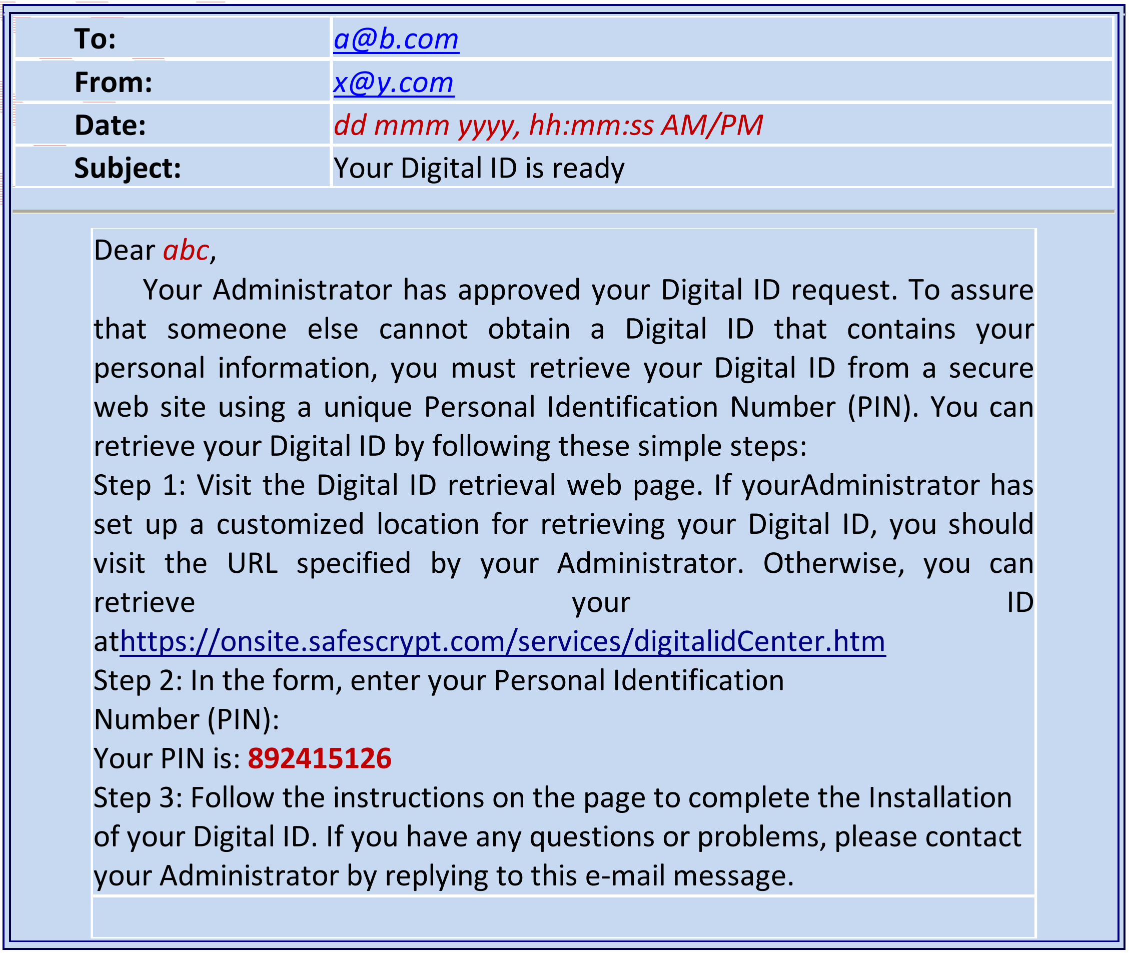
1. Certificate Application and Description of Certificates. This section details the terms and conditions regarding your application ("Certificate Application") for a Certificate and, if SafeScrypt accepts you're Certificate Application, the terms and conditions regarding the use of the Certificate to be issued by SafeScrypt to you as "Subscriber" of that Certificate. A Certificate is a digitally signed message that contains a Subscriber's public key and associates it with information authenticated by SafeScrypt or a SafeScrypt-authorized entity. The

If all the information above is correct, click **Submit** to continue.

- On receiving the enrollment application, the Registering Authority approves your application after verifying it.
- Once approved, you receive an email from the certificate issuing authority containing the PIN for installation along with the installation procedure.
- Do not format the computer until you receive the PIN. The PIN will be installed on the same computer that you used for enrolling for the digital certificate.

Steps to Install Digital Signature Certificate:

1. Apply for the digital signature if you have not procured as per the above procedure.
2. On completing the Enrollment procedure, you will receive an email in the following format (see Fig 1) from the Registration Authority. The email contains a **PIN** number and the URL to download the signature.



To:	*a@b.com*
From:	*x@y.com*
Date:	*dd mmm yyyy, hh:mm:ss AM/PM*
Subject:	Your Digital ID is ready

Dear *abc*,

Your Administrator has approved your Digital ID request. To assure that someone else cannot obtain a Digital ID that contains your personal information, you must retrieve your Digital ID from a secure web site using a unique Personal Identification Number (PIN). You can retrieve your Digital ID by following these simple steps:

Step 1: Visit the Digital ID retrieval web page. If yourAdministrator has set up a customized location for retrieving your Digital ID, you should visit the URL specified by your Administrator. Otherwise, you can retrieve your ID athttps://onsite.safescrypt.com/services/digitalidCenter.htm

Step 2: In the form, enter your Personal Identification Number (PIN):

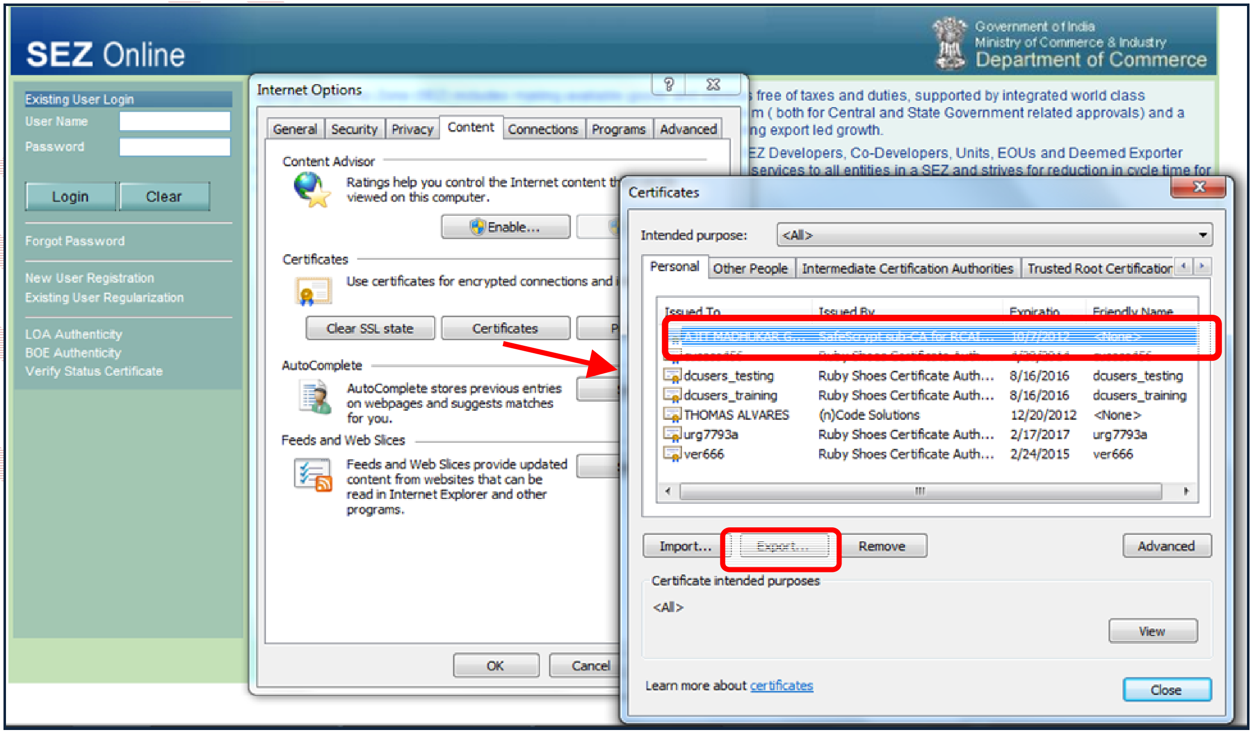
Your PIN is: **892415126**

Step 3: Follow the instructions on the page to complete the Installation of your Digital ID. If you have any questions or problems, please contact your Administrator by replying to this e-mail message.

Fig 1: Email format from Issuing Authority

3. On submitting the PIN number to the specified URL, the Digital Certificate can be installed on your computer using Internet Explorer.
4. Take a backup of the certificate using the following steps and store the backup in a safe location protected by a password.

    a) Open Internet Explorer
    b) Select Tools -> Internet Options
    c) Select Content Tab -> Certificate
    d) The certificate is displayed in the Certificate tab (see Fig 2).



...s free of taxes and duties, supported by integrated world class ...m (both for Central and State Government related approvals) and a ...ng export led growth.

...EZ Developers, Co-Developers, Units, EOUs and Deemed Exporter ...services to all entities in a SEZ and strives for reduction in cycle time for

Ratings help you control the Internet content th... viewed on this computer.

Use certificates for encrypted connections and i...

AutoComplete stores previous entries on webpages and suggests matches for you.

Feeds and Web Slices provide updated content from websites that can be read in Internet Explorer and other programs.

Intended purpose: <All>

Issued To	Issued By	Expiratio...	Friendly Name
AJIT MADHUKAR G...	SafeScrypt sub-CA for RCAI...	10/7/2012	<None>
[illegible]	Ruby Shoes Certificate Auth...	[illegible]	[illegible]
dcusers_testing	Ruby Shoes Certificate Auth...	8/16/2016	dcusers_testing
dcusers_training	Ruby Shoes Certificate Auth...	8/16/2016	dcusers_training
THOMAS ALVARES	(n)Code Solutions	12/20/2012	<None>
urg7793a	Ruby Shoes Certificate Auth...	2/17/2017	urg7793a
ver666	Ruby Shoes Certificate Auth...	2/24/2015	ver666

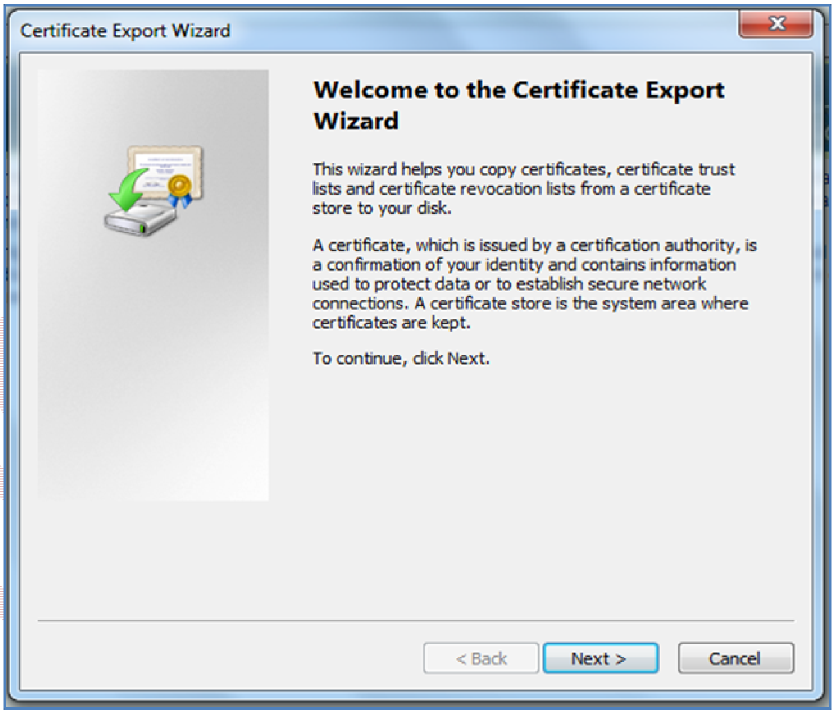
Certificate intended purposes

<All>

Learn more about certificates

Fig 2: Content Tab of Internet Explorer

e) Click the certificate, and then click the Export button



Certificate Export Wizard

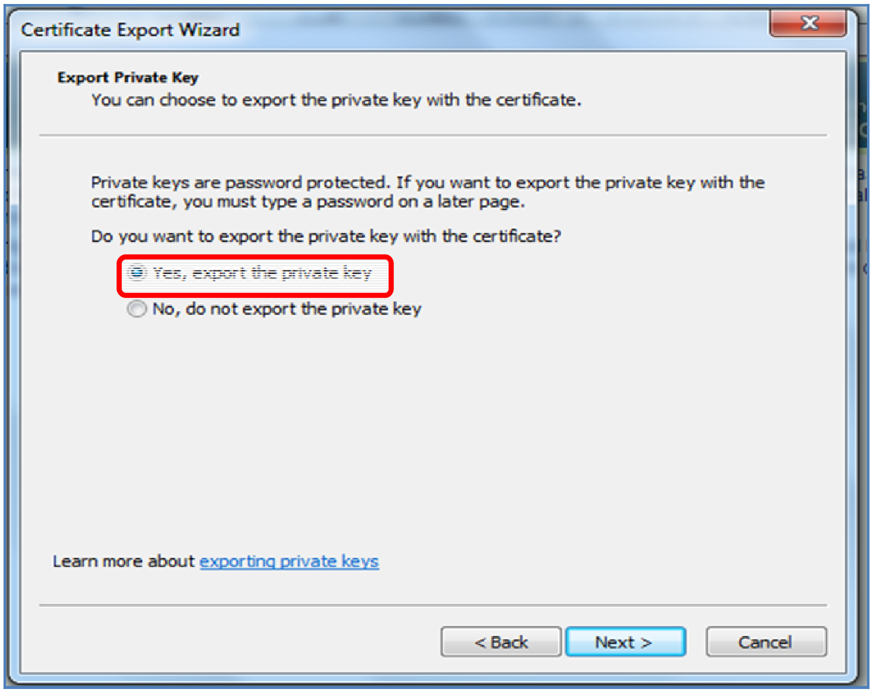
Welcome to the Certificate Export Wizard

This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk.

A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

To continue, click Next.

f) Click **Next**, and select the option "***Yes***, *Export with Private Key"*, and then click next



Certificate Export Wizard

Export Private Key

You can choose to export the private key with the certificate.

Private keys are password protected. If you want to export the private key with the certificate, you must type a password on a later page.

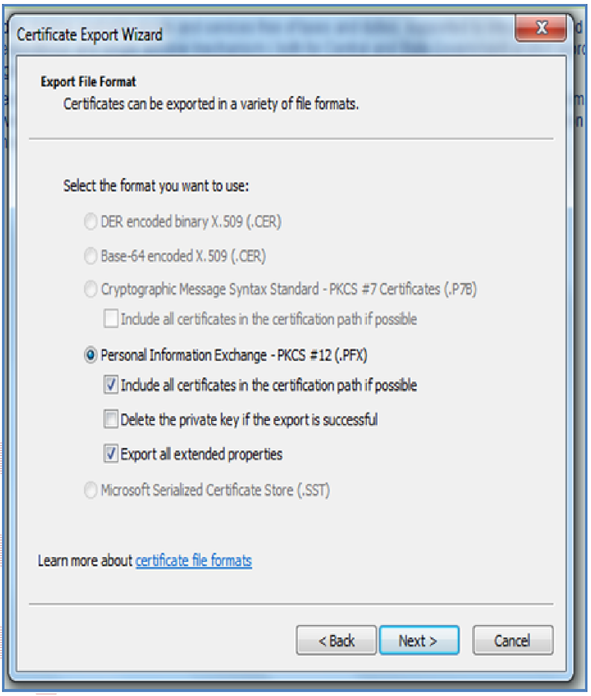
Do you want to export the private key with the certificate?

● Yes, export the private key

○ No, do not export the private key

Learn more about exporting private keys

g) A new screen will display to enter your Password (user can decide the password as per his choice), and post entering the password, click on **Next button**. (This password is required for installing the certificate again, should the need arise)



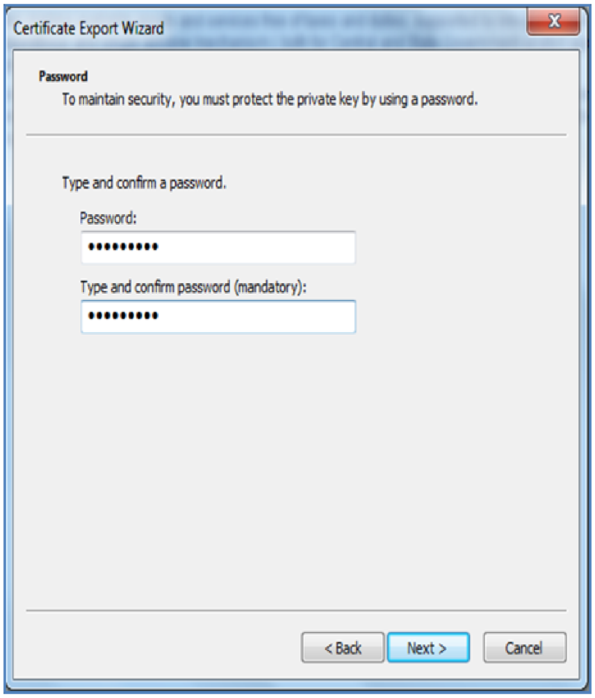
Certificate Export Wizard

Export File Format
Certificates can be exported in a variety of file formats.

Select the format you want to use:

○ DER encoded binary X.509 (.CER)
○ Base-64 encoded X.509 (.CER)
○ Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
□ Include all certificates in the certification path if possible
● Personal Information Exchange - PKCS #12 (.PFX)
☑ Include all certificates in the certification path if possible
□ Delete the private key if the export is successful
☑ Export all extended properties
○ Microsoft Serialized Certificate Store (.SST)

Learn more about certificate file formats



Certificate Export Wizard

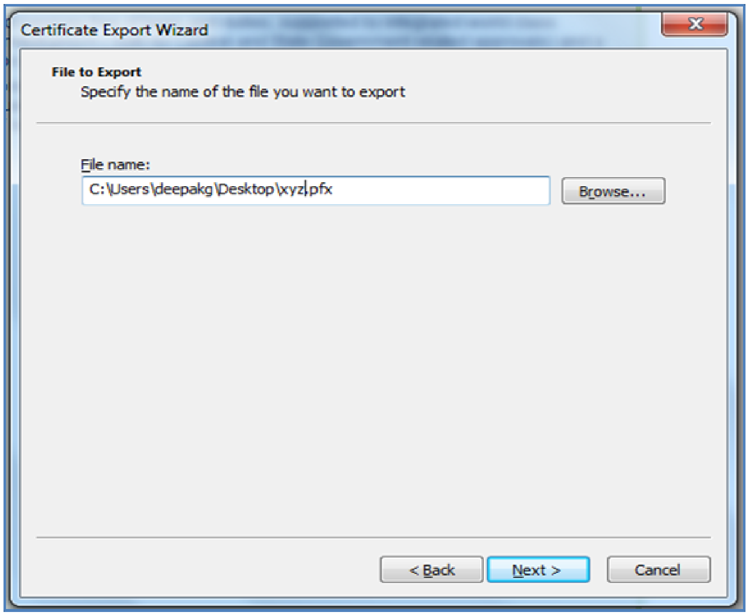
Password
To maintain security, you must protect the private key by using a password.

Type and confirm a password.

Password: •••••••••

Type and confirm password (mandatory): •••••••••

h) Select the directory to store the file and assign a name to the file, and then click **Next**.

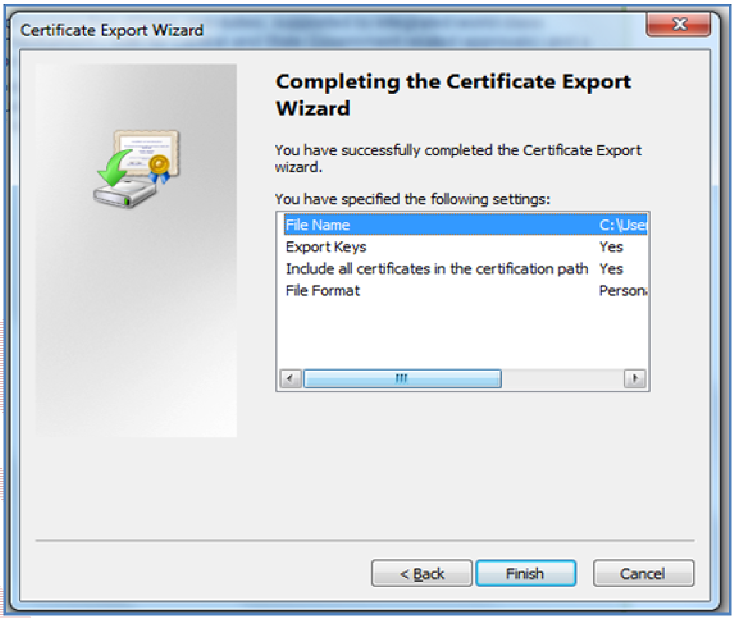


Certificate Export Wizard

File to Export
Specify the name of the file you want to export

File name: C:\Users\deepakg\Desktop\xyz.pfx

i) Click Finish and move the **.pfx** file to a safe location.



Certificate Export Wizard

Completing the Certificate Export Wizard

You have successfully completed the Certificate Export wizard.

You have specified the following settings:

File Name	C:\User
Export Keys	Yes
Include all certificates in the certification path	Yes
File Format	Person

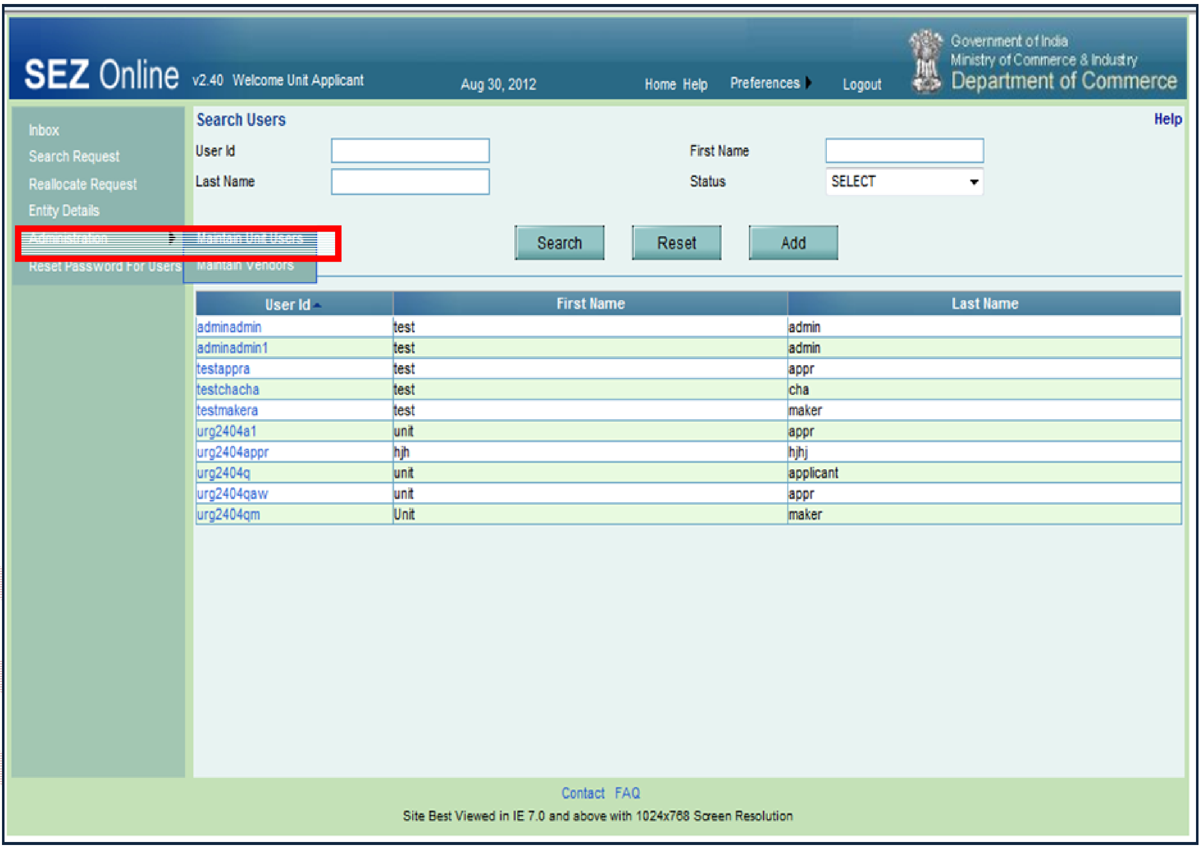
4 PROCEDURE FOR ENTERING THE DSC DETAILS OF THE USER IN SEZ ONLINE SYSTEM

3.1. Login as Entity **Admin**

3.2. Go to **Administration -> Maintain Unit Users**

3.3. **Search** for the Approver User

3.4. Click on the link of that **User Id**



Search Users

User Id

Last Name

First Name

Status SELECT

User Id	First Name	Last Name
adminadmin	test	admin
adminadmin1	test	admin
testappra	test	appr
testchacha	test	cha
testmakera	test	maker
urg2404a1	unit	appr
urg2404appr	hjh	hjhj
urg2404q	unit	applicant
urg2404qaw	unit	appr
urg2404qm	Unit	maker

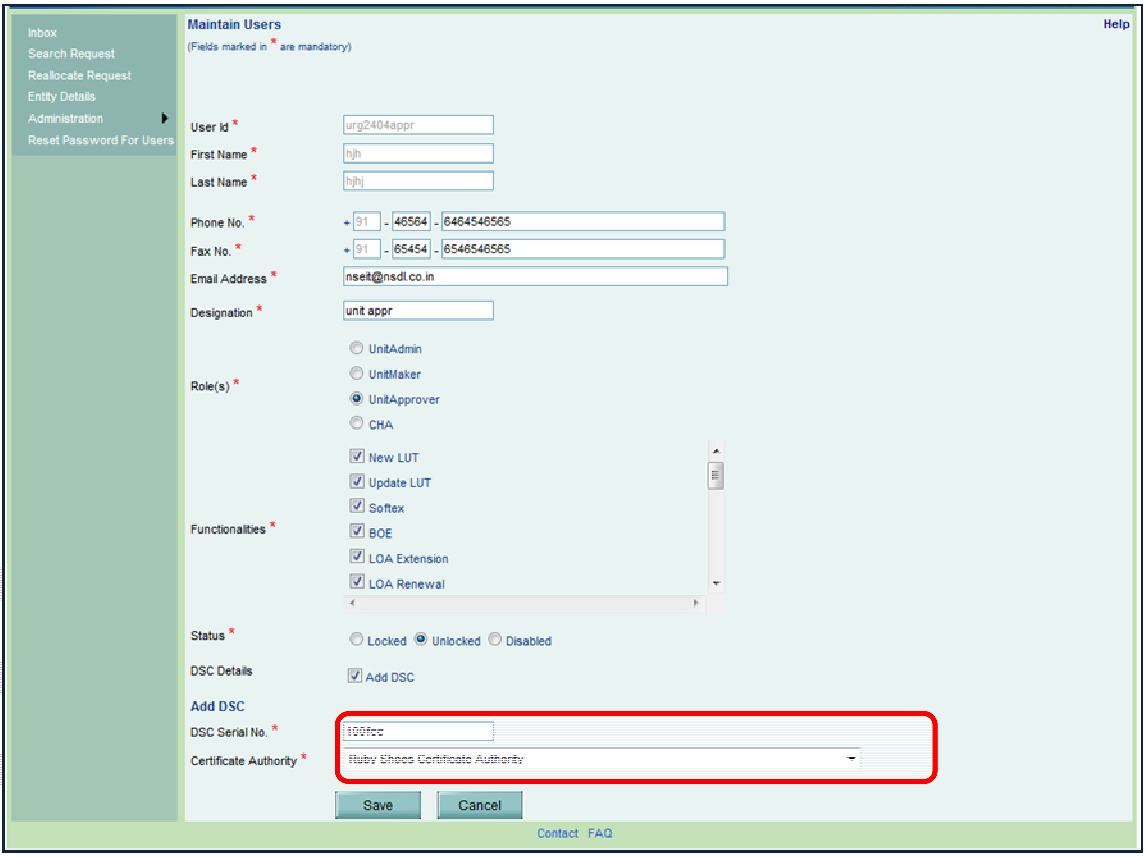
Fig 1: Administration: Maintain Unit Users search Screen

3.5. Click on "**EDIT**" button- screen shot

3.6. Select the "**ADD DSC**" Checkbox

3.7. Enter the Serial Number of the Certificate

3.8. Select the Appropriate Certificate Authority and **Save**



Maintain Users

(Fields marked in * are mandatory)

User Id *	urg2404appr
First Name *	hjh
Last Name *	hjhj
Phone No. *	+ 91 - 46564 - 6464546565
Fax No. *	+ 91 - 65454 - 6546546565
Email Address *	nseit@nsdl.co.in
Designation *	unit appr
Role(s) *	○ UnitAdmin ○ UnitMaker ● UnitApprover ○ CHA
Functionalities *	☑ New LUT ☑ Update LUT ☑ Softex ☑ BOE ☑ LOA Extension ☑ LOA Renewal
Status *	○ Locked ● Unlocked ○ Disabled
DSC Details	☑ Add DSC

Add DSC

DSC Serial No. *	100fcc
Certificate Authority *	Ruby Shoes Certificate Authority

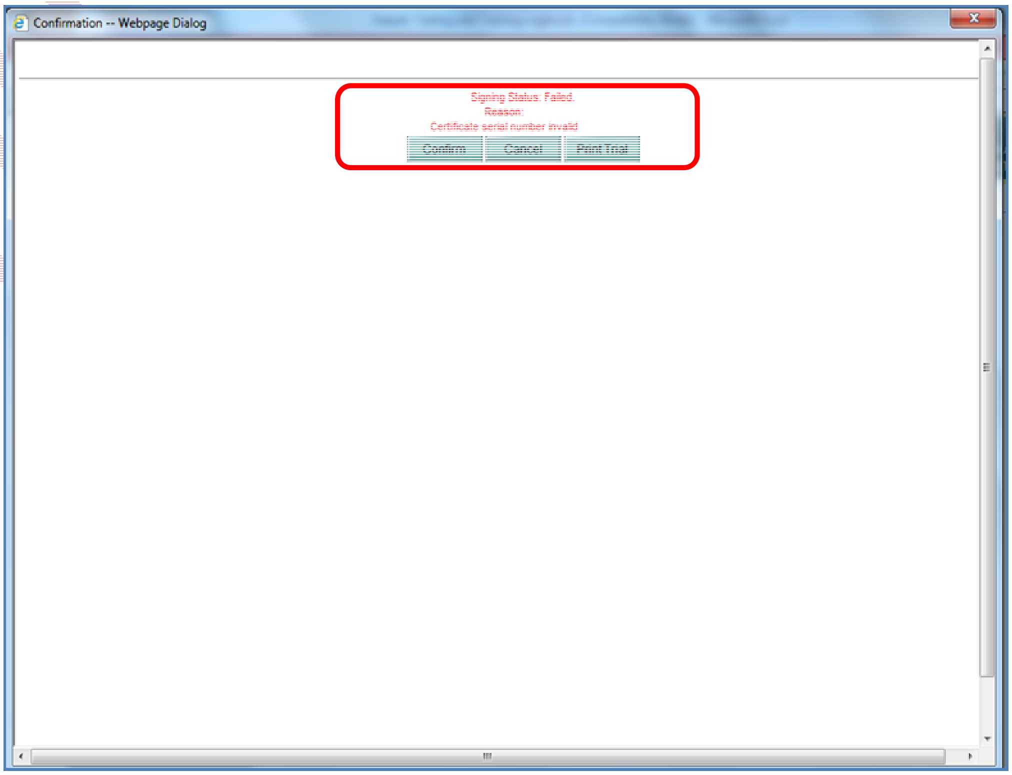
Fig 2: Maintain Unit Users: Assigning DSC to Entity Approver

Note: *As a better practice, please enter the DSC Serial number manually instead of Copy & Paste in the DSC Serial no text box.*

5 Troubleshooting

- **Pre-requisite**: Internet Explorer with Version **7** and above and strength 128 bits.

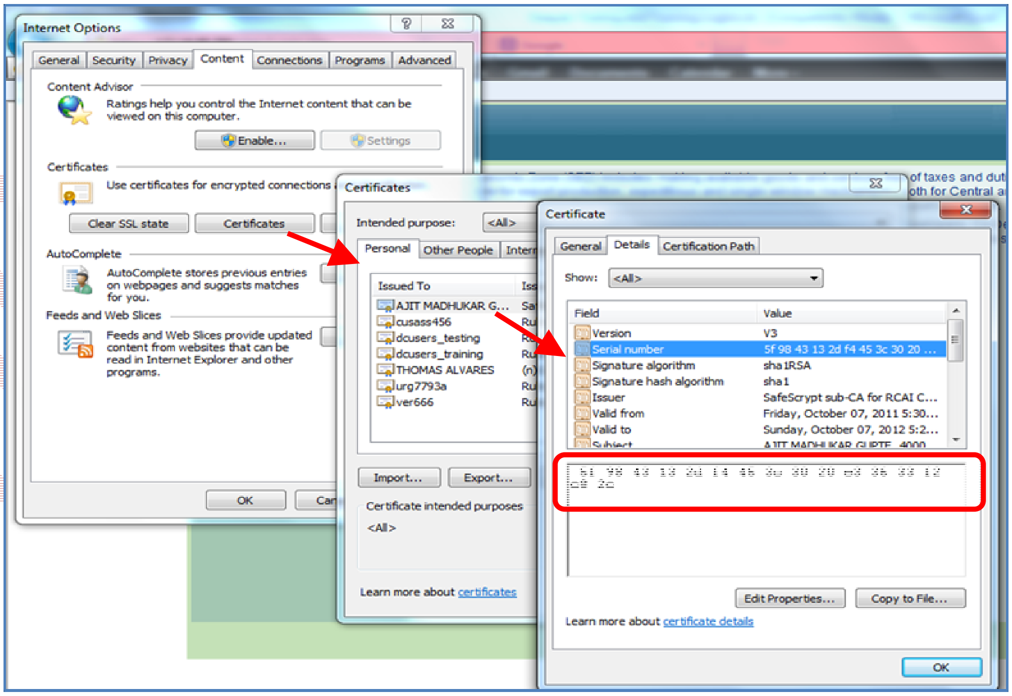
While submitting the applications with digital signature, you may encounter certain errors related to Digital signature. The list of probable errors with the standard solutions is enlisted below:

(i) Error Message:	**"Certificate Serial number invalid"**
Error Screen:	 Confirmation -- Webpage Dialog Signing Status: Failed. Reason: Certificate serial number invalid Confirm Cancel Print Trial
Solution:	✓ Login as Admin user ✓ Go to Administration -> Maintain Unit Users ✓ Search for the User to whom DSC supposed to map ✓ Click on Edit ✓ Check whether the serial number entered is same as the DSC serial number

- **To check Serial Number**, Go to

Tools—>Internet Options—>Content—>Certificates—>Personal

Select the certificate and click on the **View** button and go to **Details** Tab.



Ratings help you control the Internet content that can be viewed on this computer.

Use certificates for encrypted connections

AutoComplete stores previous entries on webpages and suggests matches for you.

Feeds and Web Slices provide updated content from websites that can be read in Internet Explorer and other programs.

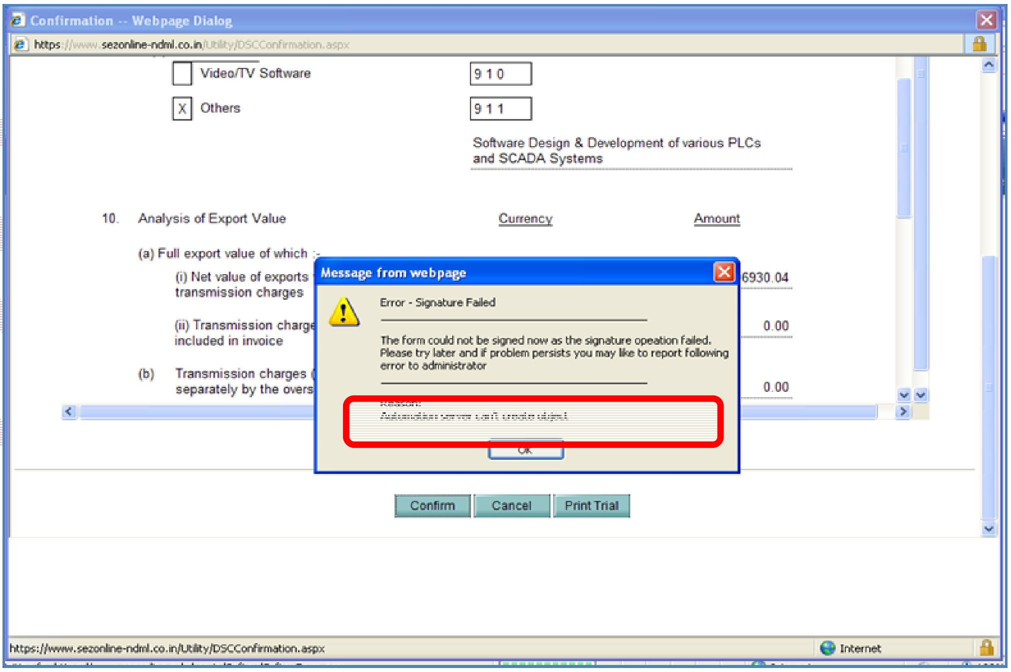
AJIT MADHUKAR G...
cusass456
dcusers_testing
dcusers_training
THOMAS ALVARES
urg7793a
ver666

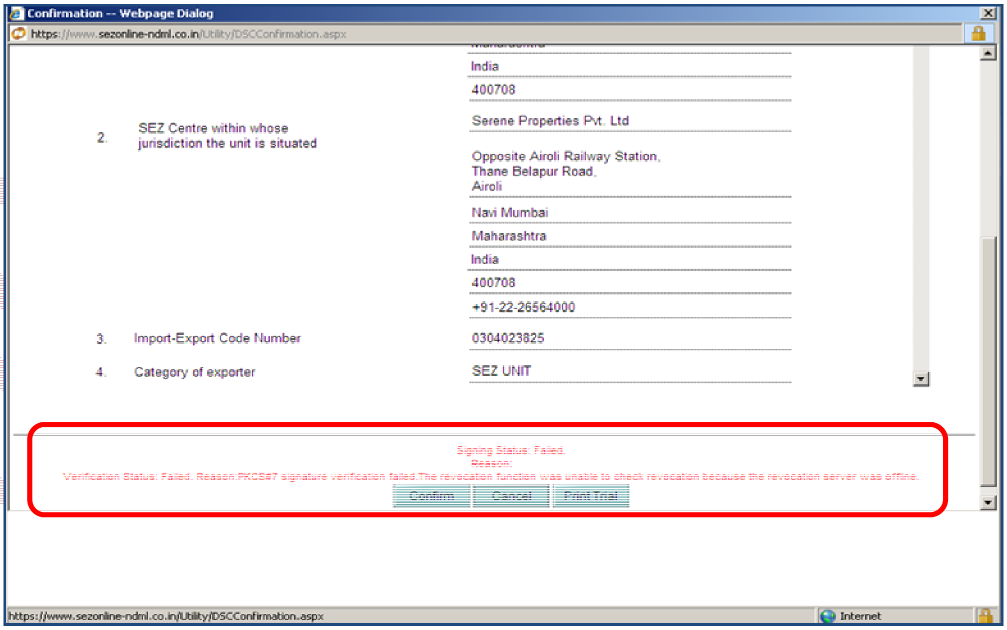
Learn more about certificates

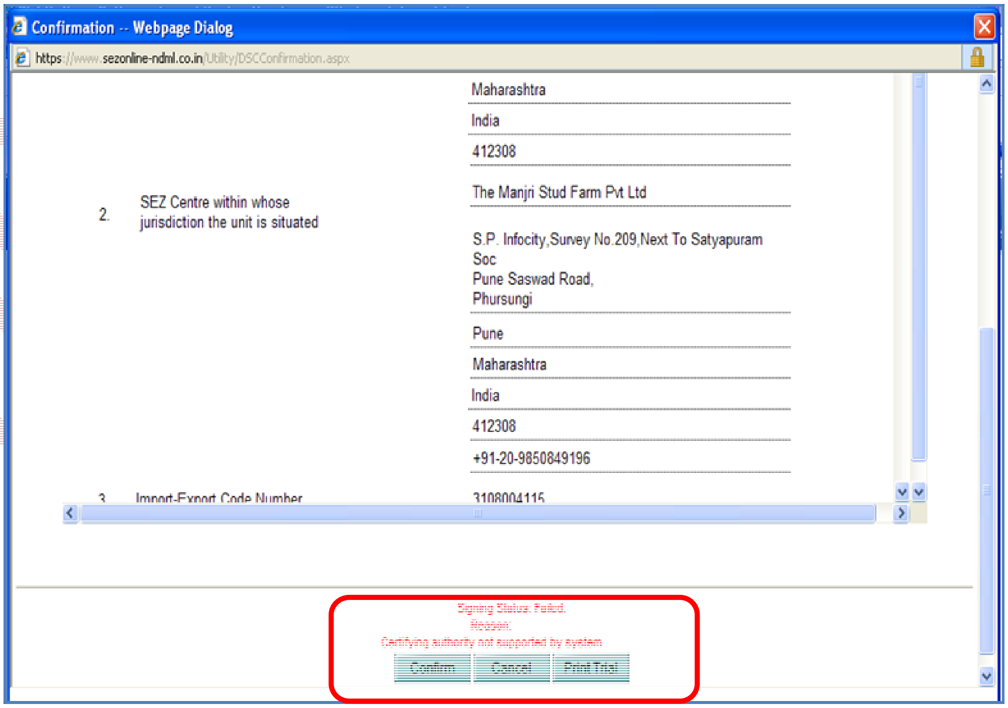
Field	Value
Version	V3
Serial number	5f 98 43 13 2d f4 45 3c 30 20 ...
Signature algorithm	sha1RSA
Signature hash algorithm	sha1
Issuer	SafeScrypt sub-CA for RCAI C...
Valid from	Friday, October 07, 2011 5:30...
Valid to	Sunday, October 07, 2012 5:2...
Subject	AJIT MADHUKAR GUPTE, 4000

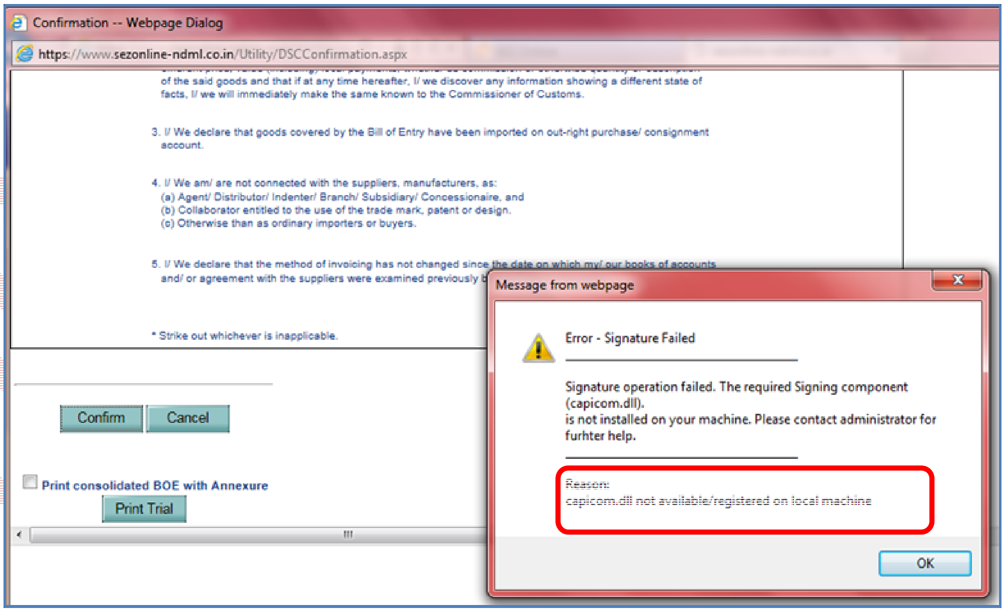
[illegible]

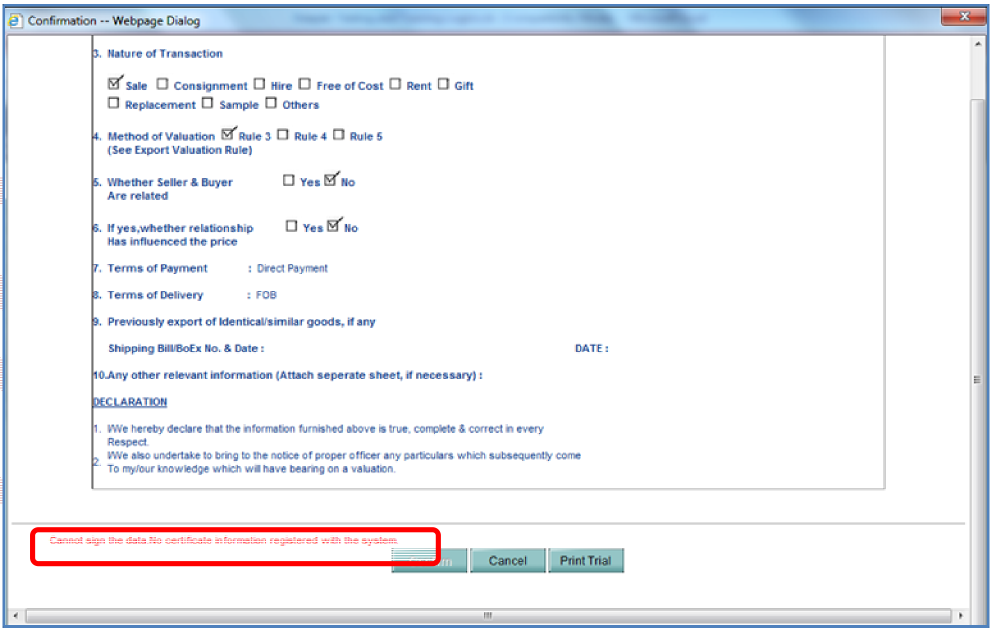
Learn more about certificate details

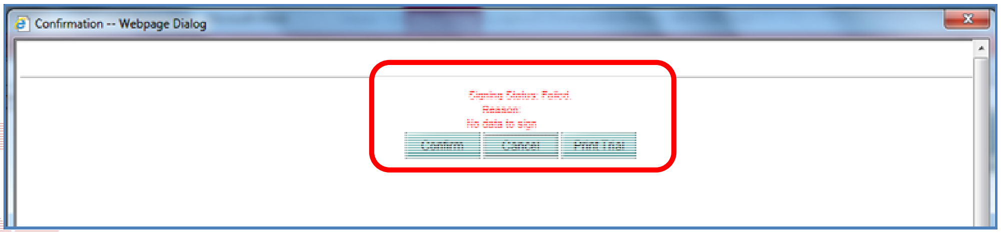
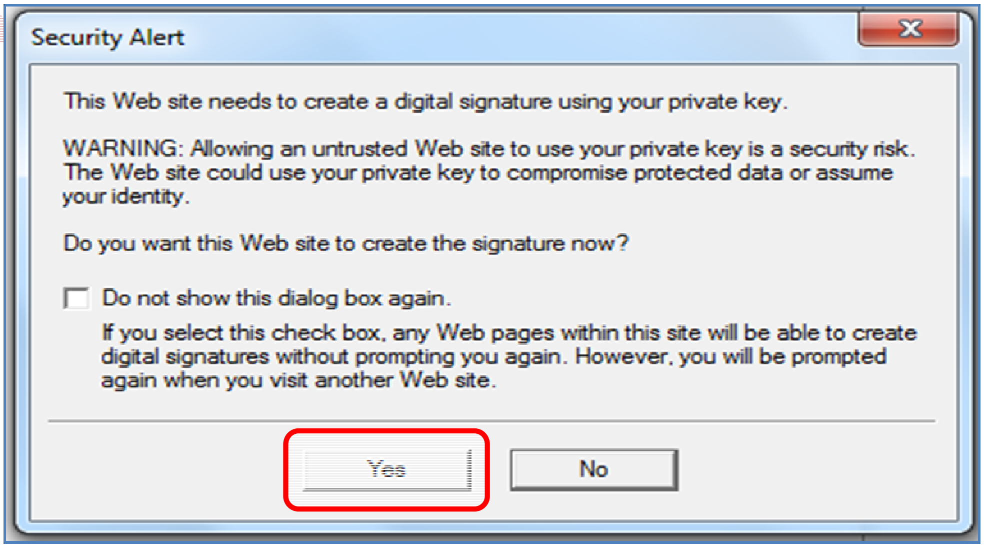
(ii) Error Message:	**“Automation Server cannot create object.”**
Error Screen:	 Confirmation -- Webpage Dialog https://www.sezonline-ndml.co.in/Utility/DSCConfirmation.aspx □ Video/TV Software 9 1 0 ☒ Others 9 1 1 Software Design & Development of various PLCs and SCADA Systems 10. Analysis of Export Value Currency Amount (a) Full export value of which :- (i) Net value of exports transmission charges 6930.04 (ii) Transmission charge included in invoice 0.00 (b) Transmission charges separately by the overs 0.00 Message from webpage Error - Signature Failed The form could not be signed now as the signature opeation failed. Please try later and if problem persists you may like to report following error to administrator Reason: Automation server can't create object OK Confirm Cancel Print Trial https://www.sezonline-ndml.co.in/Utility/DSCConfirmation.aspx Internet
Solution:	Check whether ActiveX Settings of the Internet Explorer on the machine from which the User is going to digitally sign data. If No, then do the ActiveX settings as mentioned in the Annexure I as per the browser version. **Refer Annexure I: ActiveX Settings**

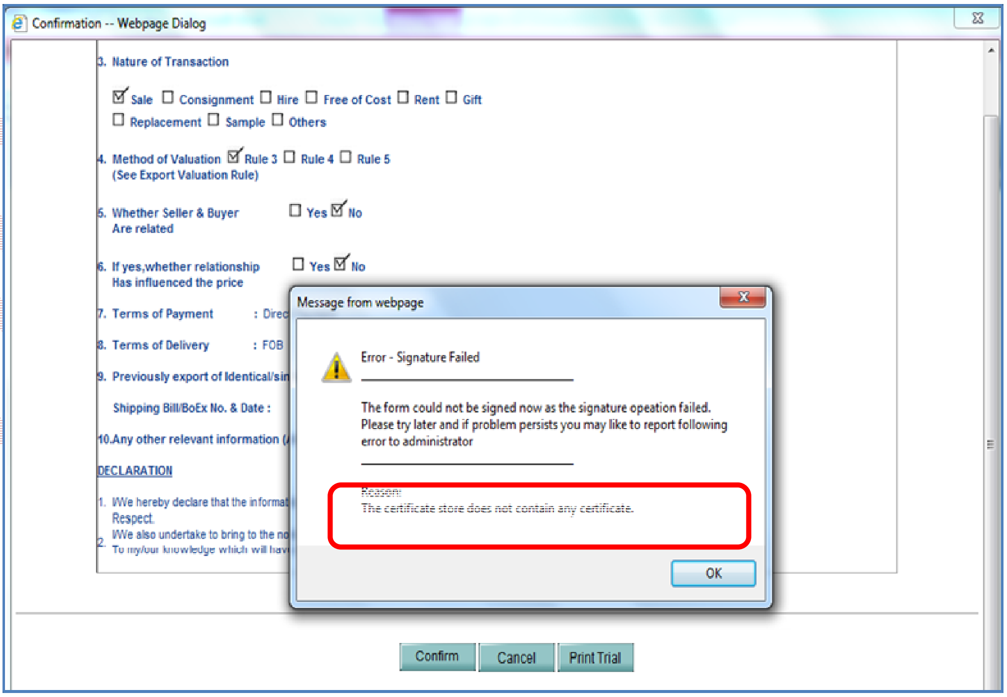
(iii) Error Message:	**“Revocation Server offline" or "Problem is in revocation of certificate”**
Error Screen:	 https://www.sezonline-ndml.co.in/Utility/DSCConfirmation.aspx India 400708 2. SEZ Centre within whose jurisdiction the unit is situated: Serene Properties Pvt. Ltd Opposite Airoli Railway Station, Thane Belapur Road, Airoli Navi Mumbai Maharashtra India 400708 +91-22-26564000 3. Import-Export Code Number: 0304023825 4. Category of exporter: SEZ UNIT Signing Status: Failed. Reason: Verification Status: Failed. Reason:PKCS#7 signature verification failed.The revocation function was unable to check revocation because the revocation server was offline. https://www.sezonline-ndml.co.in/Utility/DSCConfirmation.aspx
Solution:	✓ Check if the CRL is imported in the proper CRL folder in Cert Manager ✓ Check if the CRL chain is maintained properly. ✓ Check for the expiry dates User need to email tosezinfo@nsdl.co.in with the following details: • Name of Certifying Authority [CA] • Screen shot of Trusted Root Certificate Information from content→Certificate, • Screen shots of General Tab, Details Tab and Certification Path from View Certificate

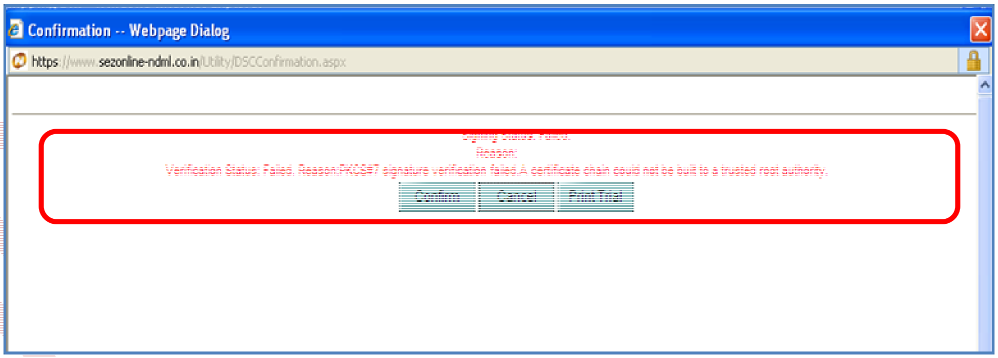
(iv) Error Message:	**“Certifying Authority not supported by system”**
Error Screen:	 Confirmation -- Webpage Dialog https://www.sezonline-ndml.co.in/Utility/DSCConfirmation.aspx Maharashtra India 412308 2. SEZ Centre within whose jurisdiction the unit is situated The Manjri Stud Farm Pvt Ltd S.P. Infocity,Survey No.209,Next To Satyapuram Soc Pune Saswad Road, Phursungi Pune Maharashtra India 412308 +91-20-9850849196 3. Import-Export Code Number 3108004115 Signing Status: Failed. Reason: Certifying authority not supported by system
Solution:	✓ Check whether the **Certifying Authority name** is matching with the users DSC **Issued by** name selected by user. ***Note:*** *If the certifying Authority is not present in the available list of CA, email to sezinfo@nsdl.co.inwith dummy certificate.*

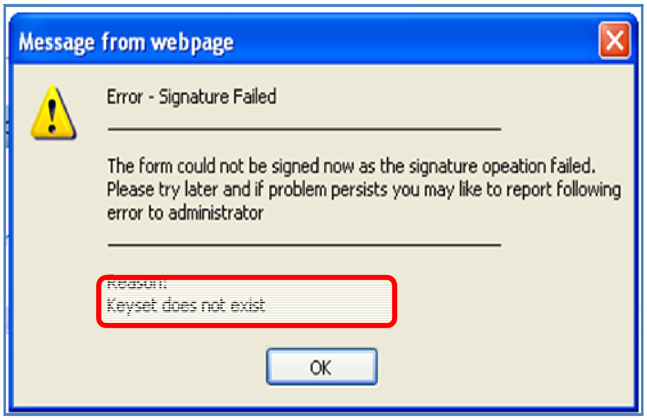
(v) Error Message:	**“Capicom.dll is not available/ register on local machine”**
Error Screen:	 Confirmation -- Webpage Dialog https://www.sezonline-ndml.co.in/Utility/DSCConfirmation.aspx of the said goods and that if at any time hereafter, I/ we discover any information showing a different state of facts, I/ we will immediately make the same known to the Commissioner of Customs. 3. I/ We declare that goods covered by the Bill of Entry have been imported on out-right purchase/ consignment account. 4. I/ We am/ are not connected with the suppliers, manufacturers, as: (a) Agent/ Distributor/ Indenter/ Branch/ Subsidiary/ Concessionaire, and (b) Collaborator entitled to the use of the trade mark, patent or design. (c) Otherwise than as ordinary importers or buyers. 5. I/ We declare that the method of invoicing has not changed since the date on which my/ our books of accounts and/ or agreement with the suppliers were examined previously b * Strike out whichever is inapplicable. Confirm Cancel □ Print consolidated BOE with Annexure Print Trial Message from webpage Error - Signature Failed Signature operation failed. The required Signing component (capicom.dll). is not installed on your machine. Please contact administrator for furhter help. ~~Reason:~~ ~~capicom.dll not available/registered on local machine~~ OK
Solution:	“**Capicom.dll**” which required for digitally signing need to be installed/registered on end user’s machine. *Kindly refer the* ***Annexure III – Installation of Capicom.dll***

(vi) Error Message:	**“Cannot Sign the Data. No certificate information registered with the System”**
Error Screen:	 Confirmation -- Webpage Dialog 3. Nature of Transaction ☑ Sale □ Consignment □ Hire □ Free of Cost □ Rent □ Gift □ Replacement □ Sample □ Others 4. Method of Valuation ☑ Rule 3 □ Rule 4 □ Rule 5 (See Export Valuation Rule) 5. Whether Seller & Buyer Are related □ Yes ☑ No 6. If yes,whether relationship Has influenced the price □ Yes ☑ No 7. Terms of Payment : Direct Payment 8. Terms of Delivery : FOB 9. Previously export of Identical/similar goods, if any Shipping Bill/BoEx No. & Date : DATE : 10.Any other relevant information (Attach seperate sheet, if necessary) : DECLARATION 1. I/We hereby declare that the information furnished above is true, complete & correct in every Respect. 2. I/We also undertake to bring to the notice of proper officer any particulars which subsequently come To my/our knowledge which will have bearing on a valuation. Cannot sign the data.No certificate information registered with the system.
Solution:	✓ Login as Admin user ✓ Go to Administration -> Maintain Unit Users ✓ Search for the User to whom DSC supposed to map ✓ Click on Edit ✓ Check the Add DSC Check box ✓ Add the Serial Number of DSC ✓ Select the appropriate Certifying Authority and Save.

(vii) Error Message:	**“No Data to Sign”**
Error Screen:	 Confirmation -- Webpage Dialog Signing Status: Failed Reason: No data to sign
Solution:	While submitting the application, when you select the Certificate, the security alert will pop up, Select "**Yes**"  Security Alert This Web site needs to create a digital signature using your private key. WARNING: Allowing an untrusted Web site to use your private key is a security risk. The Web site could use your private key to compromise protected data or assume your identity. Do you want this Web site to create the signature now? ☐ Do not show this dialog box again. If you select this check box, any Web pages within this site will be able to create digital signatures without prompting you again. However, you will be prompted again when you visit another Web site.

(viii) Error Message:	**“The Certificate Store does not contain any certificate”**
Error Screen:	 Confirmation -- Webpage Dialog 3. Nature of Transaction ☑ Sale □ Consignment □ Hire □ Free of Cost □ Rent □ Gift □ Replacement □ Sample □ Others 4. Method of Valuation ☑ Rule 3 □ Rule 4 □ Rule 5 (See Export Valuation Rule) 5. Whether Seller & Buyer Are related □ Yes ☑ No 6. If yes,whether relationship Has influenced the price □ Yes ☑ No 7. Terms of Payment : Direc 8. Terms of Delivery : FOB 9. Previously export of Identical/sin Shipping Bill/BoEx No. & Date : 10.Any other relevant information (/ DECLARATION 1. I/We hereby declare that the informat Respect. 2. I/We also undertake to bring to the no To my/our knowledge which will hav Message from webpage Error - Signature Failed The form could not be signed now as the signature opeation failed. Please try later and if problem persists you may like to report following error to administrator Reason: The certificate store does not contain any certificate.
Solution 1:	Check whether the certificate has been expired. To check: Go to *Tools—>Internet Options—>Content—>Certificates—>Personal*—select the certificate and click on the view button. In General details tab, you will find the Validity Period of the certificate.
Solution 2:	Check whether the related certificate is imported/installed in the browser or not. If Not, then import the certificate in the browser or installed the token based DSC.

(ix) Error Message:	**“A Certification Chain could not build to a trusted root authority”**
Error Screen:	 Confirmation -- Webpage Dialog https://www.sezonline-ndml.co.in/Utility/DSCConfirmation.aspx Signing Status: Failed. Reason: Verification Status: Failed. Reason:PKCS#7 signature verification failed.A certificate chain could not be built to a trusted root authority.
Solution:	The corresponding root certificate needs to import/install in the browser. Refer Annexure II : Root Certificate

(x) Error Message:	**“Keyset does not exist”**
Error Screen:	 Message from webpage Error - Signature Failed The form could not be signed now as the signature opeation failed. Please try later and if problem persists you may like to report following error to administrator Reason: Keyset does not exist
Solution:	Remove the existing certificate from the browser or uninstall the token based DSC and then re-import/re-install the same certificate.

6 Digital Signature Glossary of Terms

- **Certificate Authority** (CA) :

  An authority that creates and signs Digital Certificates for one or more users Usually CA's form a hierarchy. The top of this hierarchy is called the root CA.

- **CRL** :

  Certificate Revocation List - the place where a CA stores the IDs of all the Digital Certificates that have been revoked.

- **RA** :

  Registration Authority – An RA does the required identification for certain certificate data, which is then passed to the CA for issuing the Digital Certificate.

- **PKI** :

  Public Key Infrastructure – The combination of standards, protocols and policies that support Digital Signatures and Encryption

- **Private Key** :

  The secret key in a PKI system, used to decrypt incoming messages and sign outgoing ones. A Private Key is always paired with its Public Key during key generation.

7 ANNEXURE I: ACTIVEX SETTINGS OF INTERNET EXPLORER

Active X Settings varies for different versions of Internet Explorer.

IE 6.0 Settings:-

ActiveX Controls and Plug ins			
ActiveX Control	Enable	Disable	Prompt
Automatic prompting for ActiveX controls	-	Y	-
Binary and script behaviors	Y	-	-
Download signed ActiveX controls	-	-	Y
Download unsigned ActiveX controls	-	Y	-
Initialize and script ActiveX controls not marked as safe for scripting	-	Y	-
Run ActiveX controls and plug-ins	Y	-	-
Script ActiveX controls marked safe for scripting	Y	-	-

IE 7.0 Settings:-

ActiveX Controls and Plug ins			
ActiveX Control	Enable	Disable	Prompt
Allow previously unused ActiveX controls to run without prompt	Y	-	-
Allow Scriptlets	-	Y	-
Automatic prompting of ActiveX controls	Y	-	-
Binary and script behaviors	-	Y	-
Display video and animation on a webpage that does not use external media player	-	Y	-
Download signed ActiveX controls	Y	-	-
Download unsigned ActiveX controls	-	Y	-
Initialize and script ActiveX controls not marked as safe for scripting	-	Y	-
Run ActiveX controls and plug-ins	Y	-	-
Script ActiveX controls marked safe for scripting	Y	-	-

IE 8.0 Settings:-

ActiveX Controls and Plug ins			
ActiveX Control	Enable	Disable	Prompt
Allow previously unused ActiveX controls to run without prompt	Y	-	-
Allow Scriptlets	Y	-	-
Automatic prompting of ActiveX controls	Y	-	-
Binary and script behaviors	Y	-	-
Display video and animation on a webpage that does not use external media player	-	Y	-
Download signed ActiveX controls	-	-	Y
Download unsigned ActiveX controls	-	Y	-
Initialize and script ActiveX controls not marked as safe for scripting	-	Y	-
Run ActiveX controls and plug-ins	Y	-	-
Only allowed approved domains to use ActiveX without prompt	-	Y	-
Script ActiveX controls marked safe for scripting	Y	-	-

IE 9.0 Settings:-

ActiveX Controls and Plug ins			
ActiveX Control	Enable	Disable	Prompt
Allow Activex Filtering	Y	-	-
Allow previously unused ActiveX controls to run without prompt	Y	-	-
Allow Scriptlets	Y	-	-
Automatic prompting of ActiveX controls	Y	-	-
Binary and script behaviors	Y	-	-
Display video and animation on a webpage that does not use external media player	-	Y	-
Download signed ActiveX controls	-	-	Y
Download unsigned ActiveX controls	-	Y	-
Initialize and script ActiveX controls not marked as safe for scripting	-	Y	-
Only allowed approved domains to use ActiveX without prompt	-	Y	-
Run ActiveX controls and plug-ins	Y	-	-
Script ActiveX controls marked safe for scripting	Y	-	-

- Custom Level ->miscellaneous Option of security setting -> enable ‘Use Pop-up blocker’

8 ANNEXURE II: ROOT CERTIFICATE

A root certificate is a self-signed certificate. A root certificate, the top-most certificate of the tree, is based on the ITU-T X.509 standard. All certificates below the root certificate inherit the trustworthiness of the root certificate.

You can download the root certificates mentioned below or from website of the Controller of Certifying Authorities (CCA) at *www.cca.gov.in*

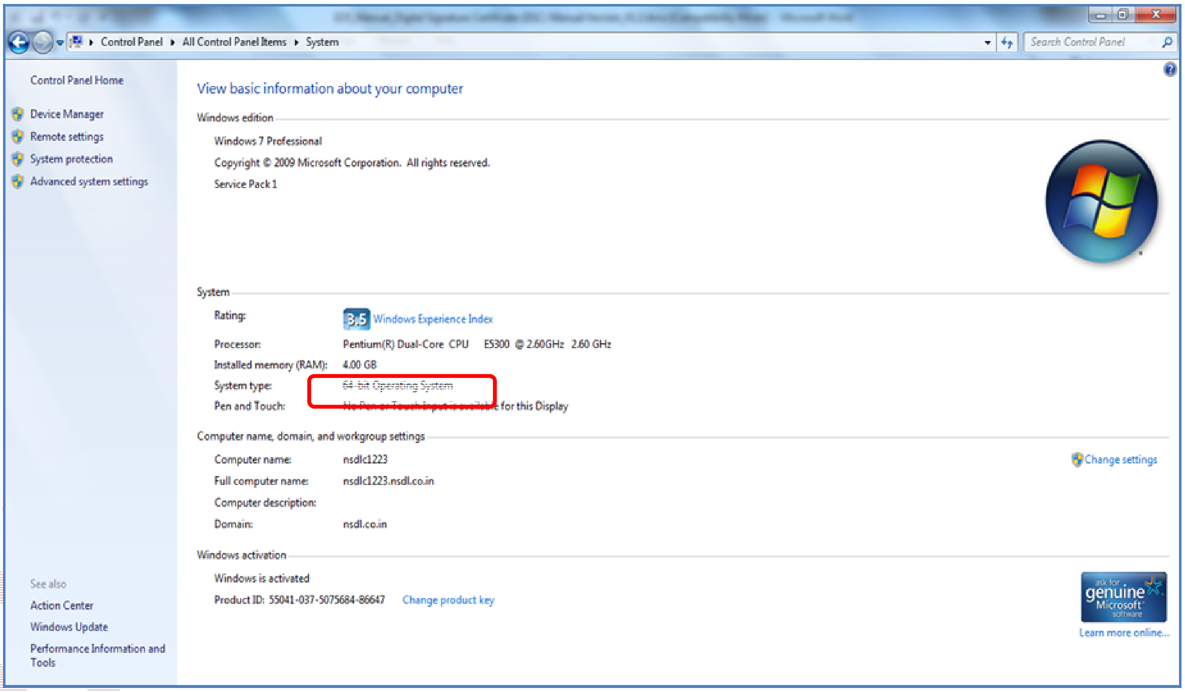
Certificate Name :	Double Click to Install…
2007 Root Certificate: **cca_india_2007.cer**	cca_india_2007.cer
2011 Root Certificate: **cca_india_2011.cer**	cca_india_2011.cer

9 ANNEXURE III: INSTALLATION OF CAPICOM.DLL

The installation or registration of **CAPICOM.dll** varies according to the windows bit versions like 32 bit version or 64 bit version.

To identify the bit version of the Operating system, go to

Control panel→System



View basic information about your computer

Windows edition

Windows 7 Professional

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Service Pack 1

System

Rating: 3.5 Windows Experience Index

Processor: Pentium(R) Dual-Core CPU E5300 @ 2.60GHz 2.60 GHz

Installed memory (RAM): 4.00 GB

System type: ~~64-bit Operating System~~

Pen and Touch: ~~No Pen or Touch Input is available~~ for this Display

Computer name, domain, and workgroup settings

Computer name: nsdlc1223

Full computer name: nsdlc1223.nsdl.co.in

Computer description:

Domain: nsdl.co.in

Windows activation

Windows is activated

Product ID: 55041-037-5075684-86647 Change product key

Based on the bit version of operating system, capicom.dll has to be registered / installed with the system. Below from the download section, select the appropriate dll to register:

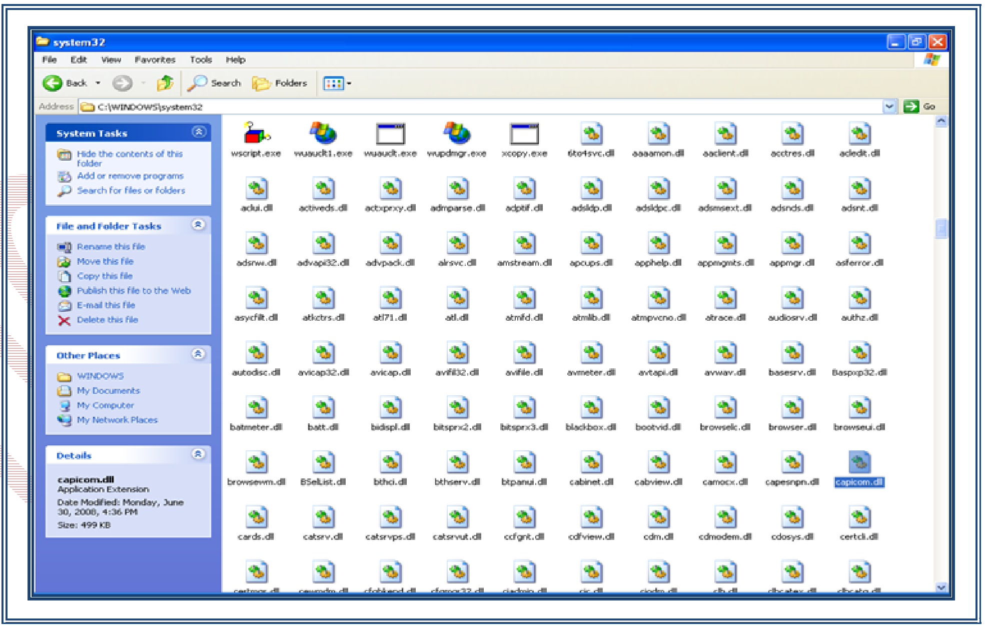
Downloads :

Note: *Double click on the respective* ***dll*** *and extract the corresponding* ***dll*** *file to local system*

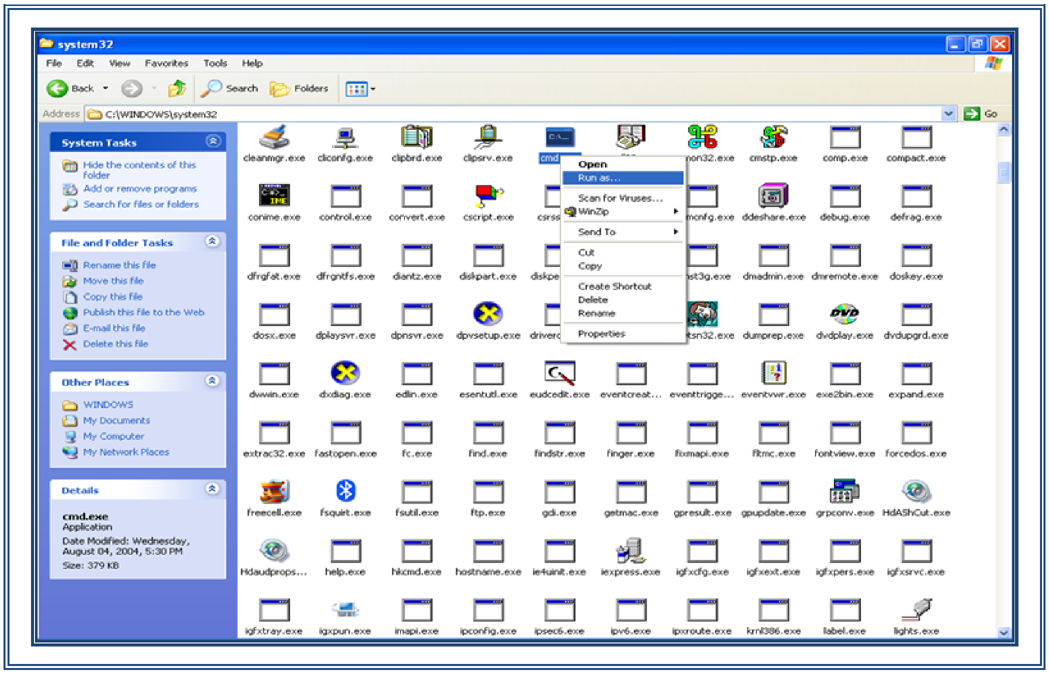
Operating System	32 bit	64 bit
Windows XP	Capicom for WIN XP [32 bit].zip	Capicom for WIN XP [64 Bit].zip
Windows Vista	Capicom for WIN Vista [32 bit].zip	
Windows 7	Capicom for WIN 7 [32 bit].zip	Capicom for WIN 7 [64 bit].zip

Procedure of Installation of capicom.dll for Windows XP, Windows Vista, Windows 7 (32bit)

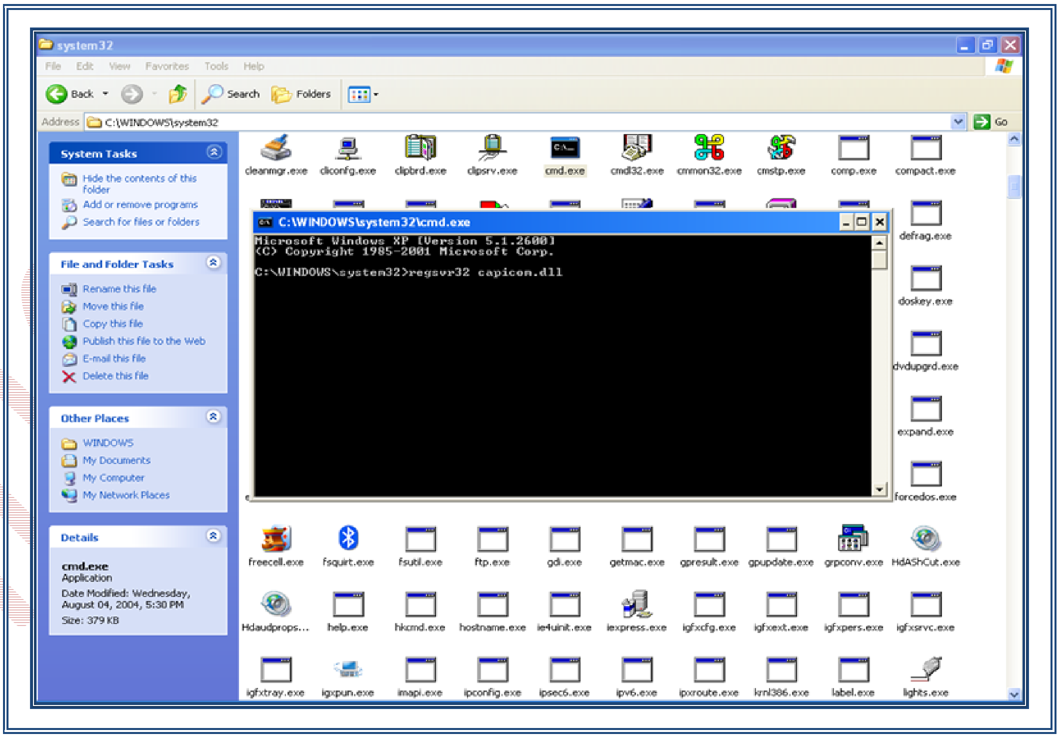
- Go to My Computer/ Local Disk ***(C:) / Windows/ System32***


system32
File Edit View Favorites Tools Help
Back Search Folders
Address C:\WINDOWS\system32
Go
System Tasks
Hide the contents of this folder
Add or remove programs
Search for files or folders
File and Folder Tasks
Rename this file
Move this file
Copy this file
Publish this file to the Web
E-mail this file
Delete this file
Other Places
WINDOWS
My Documents
My Computer
My Network Places
Details
capicom.dll
Application Extension
Date Modified: Monday, June 30, 2008, 4:36 PM
Size: 499 KB
wscript.exe wuauclt1.exe wuauclt.exe wupdmgr.exe xcopy.exe 6to4svc.dll aaaamon.dll aaclient.dll acctres.dll acledit.dll
aclui.dll activeds.dll actxprxy.dll admparse.dll adptif.dll adsldp.dll adsldpc.dll adsmsext.dll adsnds.dll adsnt.dll
adsrw.dll advapi32.dll advpack.dll alrsvc.dll amstream.dll apcups.dll apphelp.dll appmgmts.dll appmgr.dll asferror.dll
asycfilt.dll atkctrs.dll atl71.dll atl.dll atmfd.dll atmlib.dll atmpvcno.dll atrace.dll audiosrv.dll authz.dll
autodisc.dll avicap32.dll avicap.dll avifil32.dll avifile.dll avmeter.dll avtapi.dll avwav.dll basesrv.dll Baspxp32.dll
batmeter.dll batt.dll bidispl.dll bitsprx2.dll bitsprx3.dll blackbox.dll bootvid.dll browselc.dll browser.dll browseui.dll
browsewm.dll BSelList.dll bthci.dll bthserv.dll btpanui.dll cabinet.dll cabview.dll camocx.dll capesnpn.dll capicom.dll
cards.dll catsrv.dll catsrvps.dll catsrvut.dll ccfgnt.dll cdfview.dll cdm.dll cdmodem.dll cdosys.dll certcli.dll

- Search ***CMD*** file.
- Right Click on ***CMD*** file and click on ***Run*** option. User should have Administrative rights to register the dll.


system32
File Edit View Favorites Tools Help
Back Search Folders
Address C:\WINDOWS\system32
Go
System Tasks
Hide the contents of this folder
Add or remove programs
Search for files or folders
File and Folder Tasks
Rename this file
Move this file
Copy this file
Publish this file to the Web
E-mail this file
Delete this file
Other Places
WINDOWS
My Documents
My Computer
My Network Places
Details
cmd.exe
Application
Date Modified: Wednesday, August 04, 2004, 5:30 PM
Size: 379 KB
Open
Run as...
Scan for Viruses...
WinZip
Send To
Cut
Copy
Create Shortcut
Delete
Rename
Properties
cleanmgr.exe cliconfg.exe clipbrd.exe clipsrv.exe cmd ... on32.exe cmstp.exe comp.exe compact.exe
conime.exe control.exe convert.exe cscript.exe csrss ... cnfg.exe ddeshare.exe debug.exe defrag.exe
dfrgfat.exe dfrgntfs.exe diantz.exe diskpart.exe diskpe ... st3g.exe dmadmin.exe dmremote.exe doskey.exe
dosx.exe dplaysvr.exe dpnsvr.exe dpvsetup.exe driverq ... sn32.exe dumprep.exe dvdplay.exe dvdupgrd.exe
dwwin.exe dxdiag.exe edlin.exe esentutl.exe eudcedit.exe eventcreat... eventtrigge... eventvwr.exe exe2bin.exe expand.exe
extrac32.exe fastopen.exe fc.exe find.exe findstr.exe finger.exe fixmapi.exe fltmc.exe fontview.exe forcedos.exe
freecell.exe fsquirt.exe fsutil.exe ftp.exe gdi.exe getmac.exe gpresult.exe gpupdate.exe grpconv.exe HdAShCut.exe
Hdaudprops... help.exe hkcmd.exe hostname.exe ie4uinit.exe iexpress.exe igfxcfg.exe igfxext.exe igfxpers.exe igfxsrvc.exe
igfxtray.exe igxpun.exe imapi.exe ipconfig.exe ipsec6.exe ipv6.exe ipxroute.exe krnl386.exe label.exe lights.exe

- Type command - ***regsvr32 Capicom.dll***



```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\WINDOWS\system32>regsvr32 capicom.dll
```

cmd.exe
Application
Date Modified: Wednesday, August 04, 2004, 5:30 PM
Size: 379 KB

- On clicking the '***Enter***' button, the successful installation message displays.

➢ <u>Procedure of Installation of capicom.dll for Windows Vista, Windows 7 (64bit)</u>

- Click on windows Start button
- Type ***"%systemroot%\SysWoW64\"*** in the search text box to open system folder
- Copy the corresponding capicom.dll to following folder ***"%systemroot%\SysWoW64\"***
- Open the ***cmd*** prompt in administrator mode from the same folder
- Execute command ***"regsvr32 capicom.dll"***
- Click on ***'Enter'*** button,

  The successful installation message should display.