# SEZ Online Manual-

# **DSC Signing with Java Applet**





### **Table of Contents**

1	Introduction							2
2	DSC signing functionality with java applet							2
3	Troubleshooting							5
Δ	Annexure I: IAVA Console Setting							17
5	Anneyure II: Installation of IRE							20
5	Annexure II. Installation of JIL	 •••••	 	 •••••	•••••	•••••	•••••	

### DSC Signing with Java Applet

### **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.

This functionality uses the windows component i.e Capicom.dll. Since this is not compatible with 64 bit Operating system, this functionality fails for those users who use 64 bit Operating system. Also Microsoft stopped shipping CAPICOM in its new OS version's by default. Hence to provide support to the users who are having 64 bit operating system, a new functionality has been introduced for digitally signing with Java Applet.

### **2 DSC** SIGNING FUNCTIONALITY WITH JAVA APPLET

The pre requisite for signing with Java applet, Java runtime Environment [JRE] should be installed on Client's machine.

The following Security Warnings [pop ups] occur while signing using Java Applet DSC Signer:

**Warning 1:** If JRE is not installed on client's machine, the below mentioned warning is displayed on confirmation screen.

DSC Signing with Java Applet

Confirmation Webpage Dialog	x
	Intra SEZ Transfer Confirmation
General Details:	
Request ID :	371300000341
Intra SEZ Transfer No. & Date :	
SEZ unit :	URG883 aaaaaaaaaaaaaaaaaaaaaaaabaaaaaaabbbbbbb
Customs House Agent :	SELF Internet Explorer
Other Unit :	URG8878 B11 & A32 PHAS 600045 The page you are viewing uses Java. More information on
SEZ Port Code :	1234567890 Java support is available from the Microsoft website.
3IN No. of Other Unit :	DGDDG34534
E Code of Other Unit :	URG8878
nvoice Details: Sr. No. Invoice No. 10	In Ore Info OK Invoice Currency STRALIAN DOLLAR
tem Details: Sr. No. Statistical Code & De	scription of goods Quantity Value
84021200- 56756756567	÷ 7 3969
	Confirm Cancel Print Trial

On click of "OK" button, it will redirect to official Java web site to install JRE.

- **4** The complete Installation Process is explained in the section <u>"Annexure II".</u>
- + After successful installation, Java Console Settings need to be performed.

The Java Console settings are explained in the section <u>"Annexure I".</u>

**Warning 2:** After successful installation and Java Console settings, when user opens the confirmation screen for signing and submitting request, the following warning is displayed:

#### DSC Signing with Java Applet

	Reques	st Id: 251300002704				SDF	*	
Γ			SH	PING BILL FOR EXPORT OF DUTY FREE	GOODS			ernment of India
						Page No. 1/1		stry of Commerce & Ind partment of Co
	Exporter ,B11 & A3 dheri (Eas	Powernet Technologies 22 PHASE II MEPZ-SEZ, TAI st), CHENNAI, Tamil Nadu, Inc	/IBARAM,SEEPZ SEZ, An lia,600045	Invoice No & Date: 78 DT.13/ AR4/AR4A No & Date: Security Warning	05/2013 SB No & Date:		<b>_</b>	
	<b>Consign</b> 78,787,U	ee Details: S A.		Do you want to run this	application?			
				Name: Publisher:	iESSApplet			
				From:	http://172.16.89.200/Util	ity//IESSApplet-signed.jar		
				Running this application may	de a security risk		=	
1	Custom	House Agent: SELF	L/C No:	personal information at risk. R	un this application only if y	ou trust the publisher.		
ľ	Pre-Carr	iage By:	Place of Receipt By Pre-C	Select the box below, then click	Run to start the applic	Run Cancel		
	Vessel/F	Flight No: Air	Rotation No:	Show Options				
			Port of Loading: Achra					
	Port of D Abbeville	lischarge:	Country of Destination: U S A(US)	Exchange Rate U/S 14 of CA	52.35 Currency of Inv USD	oice:		
	S.No	Marks & Nos.	No. & Kind of Pkgs. S Container Nos.	tistical Code & Description of Goods EXIM Scheme Code.	.,& Quantity	Value-FOB in INR		
	1	78978	888,PKG 72	1000	100.000000 BAG	52350		
ľ	Net Weig	ght: 787KGS						
ļ	Gross W	/eight: 888KGS						
	Total FO	B Value In Words: :- Fifty Two Thousand Three	Hundred and Fifty Only)					
				Amount in			-	

Click on the checkbox "I accept the risk and want to run the application", the "certificate selector" window will be displayed. Select the valid digital certificate and click on "OK". The request will be signed and submitted successfully.

Confirmation	n Webpage Dialog		and the second		x				
	(see Rule / of Cu	istoms Valuation (Determination	of Export Goods) Rule, 2007		<b>^</b>				
	I. Shipping Bill/BoEx No. & Date :		DATE :						
2	2. Invoice No. & Date : 78 DATE : 13/05/2013								
3	3. Nature of Transaction								
	Sale Consignment Hire Free of Co Replacement Sample Others	st 🛛 Rent 🗆 Gift							
4	<ol> <li>Method of Valuation</li></ol>	Certificate Selector							
6	5. Whether Seller & Buyer 🛛 Yes 🗹 No	Select Certificate For Signing:	C hint	*	Key Char				
	Are related	dausers testing	EMAILADDRESS=deepakg	EMAIL ADDRESS=wizard@r	TE				
•	B. If yes,whether relationship □ Yes ☑ No Has influenced the price								
7	7. Terms of Payment : Direct Payment								
8	3. Terms of Delivery : CIF	Certificate Details:							
5	<ol> <li>Previously export of Identical/similar goods, if a</li> </ol>								
	Shipping Bill/BoEx No. & Date :								
	10.Any other relevant information (Attach seperate								
	DECLARATION								
	<ol> <li>WWe hereby declare that the information furnished abo Respect</li> </ol>								
2	We also undertake to bring to the notice of proper off To my/our knowledge which will have bearing on a va	Load Certificate		Ok	Cancel				
L L									
		Confirm Cancel	Print Trial						
					-				
		III							



### DSC Signing with Java Applet

### **3** TROUBLESHOOTING

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

(i) Error Message:	"Block potentially unsafe components from being run"
Error Screen:	Confirmation Webpage Dialog       (see Null / of Loadons Valuation (Letermination of Experi Goods) Hule, 2007)         1. Shipping BillBock No. & Date:       :       DATE:       130552013         3. Nuture of Transaction       Sale :       Confirmation
Solution 1:	Click on "Don't Block", it will process the application.
Solution 2:	In Java console settings, in <i>Mixed code (sandboxed vs. trusted) security</i> <i>verification</i> sections, enable the property "Enable – hide warning and run with

(ii) Error	"Verification Status Failed Reason: Problem in Base64 decoding the Signature
Message:	data. Please check if the supplied signature data is in Base64 encoded string"
Error Screen:	Confirmation Webpage Dialog       30         Signing Status: Faled.       Based         Verification Status: Faled. Reason Problem in Based decoding the Signing Status: Faled.       Print Tail         Security Warning       Confirm         Confirm Cancel       Print Tail         Security Warning       Marrie: ESSApplet         Units application?       Name: ESSApplet         Do you want to run this application?       Name: ESSApplet         Units application and the subscript of the sub
Solution:	<ul> <li>Check if the CRL is imported in the proper CRL folder in Cert Manager</li> </ul>
	$\checkmark$ Check if the CRL chain is maintained properly.
	<ul> <li>Check for the expiry dates</li> </ul>
	User need to email to <u>sezinfo@nsdl.co.in</u> with the following details:
	A Name of Certifying Authority [CA]
	<ul> <li>↓ Screen shot of Trusted Root Certificate Information from content→Certificate,</li> <li>↓ Screen shots of General Tab, Details Tab and Certification Path from View Certificate</li> </ul>
	When user clicks on "Cancel" button of confirmation screen, the above security warning is displayed. Click on "Run" button of the "Security Warning" screen.

(iii) Error Message:	"signing failed due to no data to sign"
Error Screen:	Signing Status: Faind, Reason No data to sign Confirm Cancel Print consolidated 80E with Annexure Print Trial
Solution:	1. Please ensure that you are browsing from 64 bit IE browser if your machine is
	<ul><li>64 bit. Refer section 5 to check IE browser bit</li><li>2. Please ensure that your java version is greater than JRE1.6. Below is the way</li></ul>
	to check that: Control Panel -> Java -> Java tab -> Platform or Product. Refer section 5 to install JRE.
	3. Add the URL – 'https://www.sezonline-ndml.co.in/' in the Exception list
C	under Java Control Panel. Below is the way to add the site URL in the exception list: Go to Control Panel -> Java -> Security tab -> Click on Edit Site List> Click on Add -> Enter the site URL -> Click on Ok -> Click on Ok under
	Java Control Panel to exit.

Java Control Panel
Enable Java content in the browser
Sequrity level for applications not on the Exception Site list
Only Java applications identified by a certificate from a trusted authority are allowed to run,
and only if the certificate can be verified as not revoked.
High
Java applications identified by a certificate from a trusted authority are allowed to run, even if
the revocation status of the certificate cannot be verified.
Furnities Cite Link
Applications launched from the sites listed below will be allowed to run after the appropriate security
prompts.
to add items to this list.  Edit Site List  Edit Site List
Restore Security Prompts Manage Certificates
OK Cancel Apply
Evention Site List
Applications launched from the sites listed below will be allowed to run after the appropriate security
Click Add to add an item to this list.
Isva Control Panel     Ieneral Juddate Java Security Advanced     Ignable Java content in the browser      Security level for applications identified by a certificate from a trusted authority are allowed to run,     and only if the certificate can be verified as not revoked.     Igh     Java applications identified by a certificate from a trusted authority are allowed to run,     and only if the certificate can be verified as not revoked.     Igh     Java applications identified by a certificate from a trusted authority are allowed to run,     and only if the certificate can be verified.     Eveption Site List     Applications latentified by a certificate from a trusted authority are allowed to run, even if     the revocation status of the certificate cannot be verified.     Eveption Site List     Applications latentified from the sites listed below will be allowed to run after the appropriate security     prompts.     CK Cencel Apply
Add Remove
FILE and HTTP protocols are considered a security risk.
we recommend using HTTPS sites where available.
OK Cancel

	📓 Exception Site List
	Applications launched from the sites listed below will be allowed to run after the appropriate security prompts.
	Location
	https://www.sezonline-ndml.co.in/
	<u>Add</u> <u>Remove</u>
	We recommend using HTTPS sites where available.
	OK Cancel
4	I. If still the issue persists, please contact administrator with IE browser bit and
	JRE version you collected from above steps.

(iv) Error	"IESSApplet Class not found" exception					
Message:						
Error Screen:	Confirmation Webpage Dialog					
Solution:	<ol> <li>Please ensure that you are browsing from 64bit IE browser if your machine is 64bit.</li> </ol>					
	2. Please ensure that you java version is greater than JRE1.6. Below is the way					
	to check that: <i>Control Panel -&gt; Java -&gt; Java tab -&gt; Platform or Product</i>					
	3. Try to remove cached entries					
	i. Go to Control Panel ->					
	ii. Click on Java					
	iii. Go to General Tab in Java Control Panel window.					
	iv. Click on View button.					
	v. Select "Applications" in show dropdown and select all items displayed in grid and delete using remove button.					

🛃 Java Cache Viewer				83
Show: Applications			Cache Size	: 13457 KB
Application	Vendor	Type Dat	te Size	Status
IESS - SEZOnline - Demo	Infosys	Applet	3387 KB	
			[	Close
4. Visit SEZOnline	e and try again,	, if problem	still persists,	conta
administrator v	vith IE browser bi	t and JRE versi	ion you collect	ted fro
above steps.				

(v) Error		"Application	blocked by Java	Socurity"			
Message:		Application	DIOCKEU Dy Java	security			
Error Screen:	0	Confin	nation Webpage Dialog		×		
	C http://121.242.223.199/Uhiley/DSCCenfirmation.atpr				Certificate error	× .	
	Request Id: 251501512850			EDF Number : 12edf3411111	~		
		SHIPPING BILL FOR EXPORT	OF DUTY FREE GOODS (THIRD PARTY EXP	PORT) Third Par	by and a second s	enment of in stry of Comm	
	10			Page No. 1	1	partment	
	Exporter: Third party name, third party address 1		Invoice No & Date: actual123 DT 29/05/2010	SB No & Date:			
	Third party Address2 Obv 123456		AR4/AR4A No & Date:	Import-Export Code No: 1234567890	-		
	Hong Kong 123		Q/Cert No & Date:				
	Client details Client details Client de	tals	infy123,0T,23/05/2010	BIN No./REI Code No: BIN			
	Constitution Data Res			Java Application Blocked			
	Consignee Details: ConsigneeName, Cadburies, Consi Address2,Consigness Address3,C Buyer Details:	igness Address1 ,Consigness Consigness Address4,123,Hong K	ng Application Blocked by Ja	Application Blocked by Java Security			
	buyer name;BuyerAdrress1;BuyerAdrret	ss2,BuyerAdmess3,Buyeroty,123	India. For security, applications must r settings, or be part of the Excep	now meet the requirements for the High or Very ption Site List, to be allowed to run. More Information	High security		
	Custom House Agent: SELF	L/C No:	-				
			Reason: Your security setting	Reason: Your security settings have blocked a self-signed application from running			
	Pre-Carriage By: precarrigeby	Place of Receipt By Pre-Ca Placeofreciopt	rrier:				
	Vessel/Flight No: Air Flightum	Rotation No:					
		Port of Loading: Achra	NatureOfContract.M CF LI C	F LI a LI FOB			
	Port of Discharge: Chai Wan	Country of Destination: Hong Kong(HK)	Exchange Rate U/S 14 of CA: 1	Currency of Invoice: MR			
	S.No Marks & Nos.	No. & Kind of Pkgs. St. Container Nos.	tistical Code & Description of Goods,&	Quantity Value-FOB in INR	1		
	1 MarksandNumbers	40,BOX 840	11000 descort	100.000000 827.3 80X PMV 123.25	1 ~		
	<				>		
		<b>M M</b>					

SEZ Online Manual

Page 11

Solution:	$\checkmark$	Go to Control panel
	$\checkmark$	Click on Java (32-bit) >> Java Control panel >> Security tab >> Exception site
		list
	$\checkmark$	Click on "Edit site list" button >> click on "Add" button >> enter the <u>URL</u> >>
		Save the details by clicking on "Add"



### DSC Signing with Java Applet

General Security Privacy Content Connections Content Advisor Content Advisor Ratings help you control the Internet conter viewed on this computer. Certificates	rograms Advanced tt that can be Settings Dof laxes a
Use certificates for encrypted connections.	Certificates       Expression         Intended purpose:       (All>         Personal       Other People Inter         Issued To       Iss         Import       Sagnature hash algorithm       sha IRSA         Signature algorithm       sh

(vii) Error Message:	"Certifying Authority not supported by system"
Error Screen:	Confirmation Webpage Dialog  Maharashtra India S.P. Infocity, Survey No 209,Next To Satyapuram S.C. Pune Saswad Road, Phursungi Pune Maharashtra India I
Solution:	<ul> <li>Check whether the Certifying Authority name is matching with the users</li> <li>DSC Issued by name selected by user.</li> </ul>



DSC Signing with Java Applet

**Note:** If the certifying Authority is not present in the available list of CA, email to <u>sezinfo@nsdl.co.in</u> with dummy certificate.

(viii) Error	"Cannot Sign the Data. No certificate information registered with the
Message:	System"
Error Screen:	Confirmation Webpage Dialog   3. Nature of Transaction   Image: Sale = Consignment = Nire = Free of Cost = Rent = Gift   Replacement = Sample = Others   4. Method of Valuation Image: Rule 3 = Rule 4 = Rule 5   (See Export Valuation Rule)   5. Whether Seller & Buyer = Yes Image: Yes Ima
	. We hereby declare that the information furnished above is true, complete & correct in every Respect.     . 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.     Cannot sign the data.No certificate information registered with the system.
Solution:	✓ Login as Admin user
	<ul> <li>Go to Administration -&gt; Maintain Unit Users</li> </ul>
	<ul> <li>Search for the User to whom DSC supposed to map</li> </ul>
	✓ Click on Edit
	Check the Add DSC Check box
	✓ Add the Serial Number of DSC
	✓ Select the appropriate Certifying Authority and Save.

(ix) Error Message:	"The Certificate Store does not contain any certificate"

SEZ Online Manual

Page 14

DSC Signing with Java Applet

Error Screen:	R Contraction - Mathema Distance
	Contrination Weepage Dialog
	Image: Sale       Consignment       Hire       Free of Cost       Rent       Gift         Image: Replacement       Sample       Others       Image: Sale       Image: Sale
	4. Method of Valuation I Rule 3 Rule 4 Rule 5 (See Export Valuation Rule)
	5. Whether Seller & Buyer 🛛 Yes 🗹 No Are related
	6. If yes,whether relationship Has influenced the price
	7. Terms of Payment : Direc 8. Terms of Delivery : FOR
	9. Previously export of Identical/sin
	Shipping Bill/BoEx No. & Date :       The form could not be signed now as the signature opeation failed.         10.Any other relevant information ()       Please try later and if problem persists you may like to report following error to administrator
	DECLARATION      Reason:     The catificate store does not contain any catificate
	Respect. We also undertake to bring to the no To mytour knowledge which will have
	ОК
	Confirm Cancel Print Trial
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.

(x) Error	"The Certificate Store does not contain any certificate"
Message:	The certificate store does not contain any certificate

DSC Signing with Java Applet

Error Screen:	Confirmation Webnane Dialon 8
	3. Hature 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  Ves INo Are related
	6. If yes,whether relationship Has influenced the price
	7. Terms of Payment : Direc 8. Terms of Delivery : FOB Front - Signature Failed
	8. Previously export of identical/sin Chine is a provide the singed age of the sing
	10.Any other relevant information (     Please try later and if problem persists you may like to report following error to administrator
	DECLARATION  1. We hereby declare that the informat  The certificate store does not contain any certificate
	Respect. . We also undertake to bring to the no . To my/our knowledge which will hav
	Confirm Cancel Print Trial
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.



### 4 ANNEXURE I: JAVA CONSOLE SETTING

#### Advanced Tab Settings for JRE 1.8\_60:

- i. Go to Control Panel
- ii. Click on Java
- iii. Go to Advanced tab and update the settings as below

	Properties:	Checked	Un Checked
Debugging	Enable Tracing		
	Enable Logging		
	Show applet lifecycle exceptions		X
Java Console	Show Console		X
	Hide Console		
	Do not Start Console		X
Default Java for Browsers	Microsoft Internet Explorer		
	Mozilla family		X
Shortcut creation	Always allow		
	Always allow if hinted		X
	Prompt User		X
	Prompt user if hinted		X

	Never allow		×
JNLP File / MIME Association	Always allow		
	Prompt user		×
	Never allow		×
Application Installation	Install if hinted		
	Install if shortcut created		×
	Install if hinted and shortcut		×
	Never install		×
Secure Execution Environment	Allow user to grant permission to signed content	$\checkmark$	
	Show sandbox warning banner		
	Allow user to accept JNLP security requests	V	
	Don't prompt for client certificate selection when no certificates or only one exists		X
	Warn if site certificate does not match hostname		
	Show site certificate from server even if it is valid		×
Mixed code (sandboxed vs.	Enable – show warning if needed		×
trusted) security verification	Enable – hide warning and run with protections		
	Enable – hide warning and don't run untrusted code		×

	Disable verification (not recommended)		X
Perform signed code certificate	Publisher's certificate only		X
revocation checks on	All certificates in the chain of trust	M	
	Do not check (not recommended)		×
Check for certificate revocation using	Certificate Revocation Lists (CRLs)		×
	Online Certificate Status Protocol (OCSP)		×
	Both CRLs and OCSP		
Advanced Security Settings	Enable the operating system's restricted environment (native sandbox)		X
	Use certificates and keys in browsers keystore	M	
	Enable blacklist revocation check	V	
	Enable caching password for authentication		
	Use SSL 2.0 compatible ClientHello format		×
	Use TLS 1.0		
	Use TLS 1.1		×
	Use TLS 1.2		×
Miscellaneous	Store user settings in the roaming profile		×
	Place Java icon in system tray		



### DSC Signing with Java Applet

Java Quick Starter

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#### **ANNEXURE II: INSTALLATION OF JRE** 5

Java Applet functionality is applicable to 64 bit windows operating system only. For 32 bit windows operating system "CAPICOM" functionality will work. In case of 64 bit OS, Java Runtime Environment [JRE] with 32 bit version should be installed irrespective of the Internet Explorer bit versions.

Case	Windows bit version	Internet Explorer bit version	Functionality	JRE bit version
1	32	32	CAPICOM	Not applicable
2	64	32	Java Applet	32
3	64	64	Java Applet	32

• To identify the bit version of the Operating system: Go to *Control panel*  $\rightarrow$  *System* 

🖉 🗢 🖓 🕨 Control Panel 🕨	All Control Panel Items > System	← ← Search Control Panel
Control Panel Home	View basic information about your computer	
Device Manager	Windows edition	
Remote settings	Windows 7 Professional	
System protection	Copyright © 2009 Microsoft Corporation. All rights reserved.	
Advanced system settings	Service Pack1	
	System	
	Rating: 3,5 Windows Experience Index	
	Processor: Pentium(R) Dual-Core CPU E5300 @ 2.60 GHz 2.60 GHz	
	Installed memory (RAM): 4.00 GB	
	System type: 64-bit Operating System	
	Pen and Touch:	
	Computer name, domain, and workgroup settings	
	Computer name: nsdlc1223	😗 Change settings
	Full computer name: nsdlc1223.nsdl.co.in	
	Computer description:	
	Domain: nsdl.co.in	
	Windows activation	
See also	Windows is activated	ask for , all
Action Center	Product ID: 55041-037-5075684-86647 Change product key	genuine ~
Windows Update		software
Performance Information and		Learn more online



DSC Signing with Java Applet

• To identify the bit version of the Internet Explorer :

Open Internet Explorer → Help → About Internet Explorer



- JRE setup files can be download from below mentioned official web site:
  - Go to <u>http://www.oracle.com/technetwork/java/javase/downloads/index.html</u>
     Gliek on UPE Devendend
    - Click on JRE Download



### DSC Signing with Java Applet

 Accept License Agreement and download offline executable of 32 bit JRE version where "Product / File Description" is "Windows x86 offline"

Java SE	Overview Downloads Docume	entation Comr	munity Technologies Training			
Java EE						
Java ME	Java SE Runtime Envi	ironment 8	Downloads			
Java SE Support	Do you want to run Java <sup>TM</sup> programs, or do you want to develop Java programs? If you want to run					
Java SE Advanced & Suite	Java programs, but not develop the	m, download the	Java Runtime Environment, or JRE™.			
Java Embedded	If you want to develop applications for Java, download the Java Development Kit, or JDK™. The					
Java DR	JDK includes the JRE, so you do not have to download both separately. JRE 8u60 Checksum					
Java DB						
Web Tier	Java SE	Runtime E	nvironment 8u60			
Java Card	You must accent the Oracle Bir		a Agreement for Java SE to download this			
Java TV	Tou must accept the oracle bill	softwar	e.			
New to Java	Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software					
Community	Product / File Description	File Size	Download			
Java Magazine	Linux x86	48.97 MB	jre-8u60-linux-i586.rpm			
vava magazine	Linux x86	70.44 MB	jre-8u60-linux-i586.tar.gz			
	Linux x64	46.86 MB	jre-8u60-linux-x64.rpm			
	Linux x64	68.36 MB	jre-8u60-linux-x64.tar.gz			
	Mac OS X x64	60.2 MB	jre-8u60-macosx-x64.dmg			
	Mac OS X x64	55.92 MB	jre-8u60-macosx-x64.tar.gz			
	Solaris SPARC 64-bit	52.06 MB	ire-8u60-solaris-sparcv9.tar.gz			
	Solaris x64	49.78 MB	ire-8u60-solaris-x64.tar.gz			
	WILDOWS 400 VILLE	U 30 MD				
	Windows x86 Offline	47.39 MB	ire-8u60-windows-i586 exe			
	windows too	29 Z2 MB	Ire-supu-windows-ipsp lat oz			
	Windows x64	53.88 MB	ire-8u60-windows-y64 eye			
	Windows x64	62.59 MB	ire-8u60-windows-x64 tar gz			

#### Installation Steps:

Step 1: Download the files from above mentioned link or the setup files which are enclosed in the above table 1. Double click on the setup [.exe] file, installation will start.



DSC Signing with Java Applet

Step 2: Click on Install button



Step 3: After Successful message, click on Close button. It will redirect to Java web site for Verification of Java installation as shown below. Click on "**Verify Java Version**"

#### DSC Signing with Java Applet



### DSC Signing with Java Applet

Confirmation about the Java installation will be displayed as shown above. You can verify the Java version from Control Panel as follows: Go to **Control Panel**  $\rightarrow$  Java  $\rightarrow$  Java Tab  $\rightarrow$  View Button

🖗 All Control Panel Items – 🗗 🗙								
🔄 🕘 🔹 🏌 📴 > Control Panel > All Control Panel items 🔹 🗸 Search Con 🔎								
Adjust your computer's settings								
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