E-platform for School Development & Accountability (ESDA) Version 5.3.x

Installation and Data Migration Guide

July 2025

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About this Guide

This Installation and Data Migration Guide aims to provide the details on the installation of ESDA for System Administrator or any staff member authorised to install and manage ESDA. System Administrator can get installation and data migration instructions, and information on post-installation and post-migration testing for ESDA v5.0.x in this guide or through the self-learning videos on the ESDA webpage (<u>https://www.edb.gov.hk/en/sch-admin/sch-quality-assurance/performance-indicators/esda/self-learning.html</u>).

Contact us

Education Bureau (EDB) welcomes schools to share with us their opinions and good practices in using ESDA. Please contact the Indicators Section of the EDB to express any views and suggestions, or to share experiences by phone, fax or email.

You can contact the Indicators Section of the EDB by the following methods for enquiring about the technical problem of ESDA.

- Telephone: 2892 6577 / 2892 6476 / 2892 6544 / 2892 6507
- Fax: 2119 9074
- Email: <u>indicators@edb.gov.hk</u>

Note: For enquiries by email or fax, please state the technical problem encountered, school name and contact person with phone number.

Chapter 1 Installing ESDA

1.1 ESDA Installation

1) Double-click "esda-v5.0.x.exe". Select "I accept the agreement" and click "Next".



2) The ESDA v5.0.x will be installed in a default folder, click "Next".



📥 Setup - ESDA version 5.0.0		– 🗆 X
Select Destination Location Where should ESDA be installed?		
Setup will install ESDA into the following folder.		
To continue, click Next. If you would like to select a different fold	ler, click Browse.	
C:\esda_new		Browse
At least 696.6 MB of free disk space is required.		
	Back Next	Cancel

3) Click "Install" to start the installation.



4) Installing ESDA v5.0.x.

		- ×
c ^나 ਤ Setup - ESDA version 5.0.0	_	
Installing Please wait while Setup installs ESDA on your computer.		
Extracting files C:\esda_new\SQLEXPR_x64_ENU\1033_ENU_LP\x64\Setup\x64\MSOLEDBSQL.MSI		
		Cancel

5) Installing the MSSQL.

_	1 SQL Server 2019 Setup			-		\times	
	Install Setup Files If an update for SQL Server Set	up is found and specified to be included, th	he update will be installed.				
	Install Setup Files Installation Progress		_				-
		Task	Status				
		Scan for product updates	In Progress				
		Download Setup files	Not started			_	
		Estract Setup files Install Setup files	Not started Not started				
			< Back Mer	t>	Cance	1	\sim

6) Click "Next" when the installation is completed.



Note:	
If ES.	DA v4.x.x is detected on the same server during installation, ESDA v5.0.x will
be registered	automatically.
	📥 Setup - ESDA version 5.0.0 — 🗆 🗡
	Information
	Please read the following important information before continuing.
	When you are ready to continue with Setup, dick Next.
	ESDA 5.0.0 URL: https://ocalhost/school
	Please read the manual if need to setup the ssl certificate.
	Setup X
	Registration Successful
	ОК
	Next

7) Click "Finish" to close the installation programme.

📩 Setup - ESDA version 5.0.0	- 🗆 ×
	Completing the ESDA Setup Wizard
	Setup has finished installing ESDA on your computer.
	Click Finish to exit Setup.
(IION)	
	Back Finish

8) Restart the Windows Server after the installation is completed.

Chapter 2 Testing after Installation

2.1 Login Test

1) Login as an Administrator to the Windows Server where ESDA v5.0.x is installed.

2) Launch a supported browser (e.g. Google Chrome, Mozilla Firefox, Microsoft Edge, etc.) to "https://127.0.0.1/school" or "https://<IP address or domain name>/school".

3) Login as a System Administrator to the ESDA v5.0.x system.

「學校發展與問責」 數據電子平台 E-platform for School Development and Accountability(ESDA) ーーー	Welcome to ESDA
SDA is used by schools to collect and manage self-evaluation data, including the administration of online Stakeholder Survey (SHS), assessing students' affective and social outcomes, performing analysis of data collected, and publishing the reforming their efficiency in conducting SSE and alleviating the reformance theorem is performing the promoting their efficiency in conducting SSE and alleviating the reformance theorem is performing the promoting the index of the set of the s	 学校協民県姓氏, 新鮮電子中台
Version : 5.1.2 Technical Support	
Please note that when handling personal data, you should abide by the "Personal Data (Privacy) Ordinance". For details, please visit the website of the Office of the Privacy Commissioner for Personal Data at : <u>https://www.pcpd.org.hk/index.html</u>	Note: The survey is conducted in an anonymous manner.

Note:

If ESDA cannot be accessed after installation, please check again whether the port used (e.g. default port 443) for ESDA v5.0.x is available. Please refer to Appendix 3 for details.

2.2 Login by Default User Account

The default username of a System Administrator account is **admin** and the password is **P@ssw0rd**. For security reason, please change the password of the default administrator account at once. Besides, all the user passwords used in ESDA v4.6.0 or before are not applicable for ESDA v5.0.x system. The System Administrator have to use the "Reset User Password" function in the "User Management" Module to assist all users in setting the passwords applicable for ESDA v5.0.x system. For details, please refer to Section 3.8 of the Operation Manual.

- 1) Click "admin" and then click "Change Password".
- 2) Enter the "Old Password" and "New Password", and then click "Confirm".
- 3) The new password would be effective from the next login.

E-platform for School Dev	velopment & Accountability (ESDA)	The Selected School Year : 2021-22	
Home / System Overvi	iew .	Text Size 🌘 🏭 🛓 admir	
System Overview		Change Password	
110	oy 110 💦 20	1 Online Help	
Change Password		Screen ID: r	1av-002 ×
* Old Password	Please Enter Old Password	0	
* New Password	Please Enter New Password	0	
* Confirm Password	Please Enter Confirm Password	0	
		⊗ Cancel 🛛 🖂 📿	onfirm

2.3 System Registration

System Administrator have to complete the registration for ESDA v5.0.x before using any functions in the system. System Administrator should obtain a registration key from the Indicators Section of the EDB for system registration so that the ESDA system could start be used. If the ESDA v4.6.0 and ESDA v5.0.x systems are installed on the same server, ESDA v5.0.x will be registered automatically. If the ESDA v4.6.0 and ESDA v5.0.x systems are installed on different servers, please send an email to the Indicators Section of EDB (indicators@edb.gov.hk) to request a registration key and follow the steps below for system registration.

- 1) Mouse over "System Tools" and then click "System Setting".
- 2) Select the school level in "School Level" section.

- 3) Enter the registration key.
- 4) Click "Register".

Note:

The registration key of ESDA v4.x.x is not applicable to ESDA v5.0.x.

ichool Badge U	pload					
	Upload Upload Image of 2:	50 x 100 Pixels or 250% rs	tio size [JPG/JPEG/PNG File	Format]		
ystem Registra	tion					
School Level	Select				~	
Registration Key		-	-].[
Registration Key				-		ℓ. Reg

2.4 System Update

Please conduct a system update after the registration of ESDA v5.0.x.

1) Mouse over "System Tools" and then click "System Update".

2) Switch on the "Maintenance Mode".

System Overview System Update ×
System Update
Maintenance Mode
Please switch to the Maintenance Mode before updating the data package.
 Import Offline Data Package Link to download Offline Data Package The latest version includes all historical versions

3) Click "Update" in the Online Package List section. "Updating" will be prompted when the system update is started. It takes about 15-20 minutes.

ESDA	E-platform for School Development & Accountability (ESDA)					
「中心物理保護者」的通常子生始 E-plations for School Cevelopment and Accountability (ISDA)	🖻 System Tools / System U	Text Size 🥥 🎹 🔺 admin +				
 dec Accourtobility (ISDA) 	System Update (+)					
🖌 System Tools 👘 🔿	System Update				Screen ID: system-spillele-002	
O System Update						
	 Import Offline Data Backage <u>Link to covinicad Offline Data Fackage</u> The latest version includes all historical versions 					
	Online Package List					
	Package Type	Version	Release time	Description	Action	
	Data Package	1.0.185	2022-06-16 12:32:09		G Update	

4) Switch off the "Maintenance Mode" after the system update is completed.



Chapter 3 System Setting

3.1 School Setting

The basic school information such as school name, SCRN, school session etc. is recorded in the System Setting.

- 1) Mouse over "System Tools" and then click "System Setting.
- 2) Click "Basic Information" tab.

3) Enter the required information and then click "Save".

System Overview Gystem Setting ×							
System Setting Screen ID: system-setting-002							
Basic Information Advan	ced System Setting System	Nersion Ir	formation				
School Name (Eng)	School Name (Eng)	0/200	School Name (Chi)	School Name (Chi) 0/200			
	[
Name of Administrator	Name of Administrator	0/200	Name of teacher in charge	Name of teacher 0/200			
Phone of Administrator	Phone of Administrator	0/200	Phone of teacher in charge	Phone of teacher 0/200			
Email of Administrator	Email of Administrator	0/200	Email of teacher in charge	Email of teacher in charge 0/200			
SCRN	SCRN	0/200	Session	Select V			
		-,		110100 -			
Current School Year	2021-22		School Level	Primary School			
Current KPM Version	101 100 F		C	APR 6 1			
Current KPM Version	KPM2015		Current APASO Version	APASO-II			
Current SHS Version	SHS2015						
				⊙ Cancel ⊘ Save			

4) School may choose to provide relevant contact information to the EDB. If click "Yes", the contact information will be saved at both school and EDB server. If click "No", the contact information will be saved at the school server only.

Ρ	rompt	×
	You can choice to provide your contact information to the Education Bureau via the E-platform	
	⊗ No 🛛 ⊘ Ye	s

3.2 Upload School Badge

System Administrator can upload the school badge at "System Setting".

1) Mouse over "System Tools" and then click "System Setting".

- 2) Click "Basic Information" tab.
- 3) Click "Upload" to upload in "School Badge Update" section.
- 4) Select the school badge image file and click "Open".
- 5) System Administrator may click "Reset" to set the badge to the default picture.

ESDA	E-platform for School Development & Accountability (ESDA)				
「学校發展與同賞」数據電子平台 E-platform for School Development	System Tools / System Setting				
and Accountability (ESDA)	System Overview System Setting ×				
🖷 Home 👻	School Badge Upload				
🖌 System Tools 🔷 🔿	Q. Reset Opload Upload Upload Upload Image of 250 x 100 Pixels or 250% ratio size (IPG/IPEG/PNG File Format)				
O System Setting	 choose mode on a new cost posterio a subscription and the choose of the choice of the c				

3.3 School Year Setting

System Administrator should set an appropriate school year as the "Current School Year".

1) Mouse over "System Tools" and then click "School Year Setting".

2) Select an appropriate school year as "Current School Year".

tem Overview • School Year	Setting ×		Sc.746	n ID: school-yew-setting-00
School Year Name	KPM Version	APASO Version	5H5 Version	Current School Year
2021-22	KPM2015	APASO II	SHS2015	
2020-21	KPM2015	APASO II	\$1152015	
2019-20	KPM2015	APASO-II	SHS2015	

3.4 Advanced System Setting

System Administrator can choose the information to be displayed at the "Online Help".

- 1) Mouse over "System Tools" and then click "System Setting".
- 2) Click "Advanced System Setting" tab.
- 3) Select the "Help Display Setting" type.

stem Setting Screen ID: system-setting					
Basic Information	Advanced System Setting System Version Information				
Help Display Settin	p Show System Administ				
School Year Vers	Show all Support Information Of Show System Administrator Information only				
KPM Version:	G Show Teacher in charge Information only				
APASO Version:	Show Education Bureau Support Information only				
SHS Version:	SHS2015				

4) All users can get the related help information from the "Online Help".

System thereview				Change Password
110	110 See		1	Online Lielp Linis
mare Q	marm Q	mare Q		Self-learning Video Olipa Manuals And Guides
System Information		2022 June	Previous Month	Log Out

3.5 System Version Information

System Administrator can check the system version information from "System Setting".

1) Mouse over "System Tools" and then click "System Setting".

2) Click the "System Version Information" tab to check the related information.

tem Setting					Screen ID: system-setting
Basic Information	Advanced System 9	Setting	System Version Inform	nation	
	Local Version	Insta	allation Time	Latest Version	Published Time
ESDA System Version	v512	202	2-05-20 15:39:16	v512	2022-05-23 17 22:54
Package Version	v1.0.220	202	2-05-26 09:00:02	v1.0.220	2022-05-25 18:14:53

3.6 Set up e-Certificate

In order to set up ESDA v5.0.x to run on port 443, a valid e-Certificate is required. Schools can purchase a valid e-Certificate from a recognised Certification Authority (CA) or create a self-signed certificate:

- A) Using an e-Certificate that purchase from a Certification Authority
 - Make sure the purchased e-Certificate is in PKCS#12 format (the extension is ".p12"). If the e-Certificate is not in PKCS#12 format, please use other tools to convert the e-Cert to the PKCS#12 format first, for example using openssl to convert the e-Cert to ".crt" file to ".p12" file. Please refer to the website https://www.openssl.org/ for download and use openssl.

Notes:

If schools use openssl version 3.0.x or above to convert the e-Certificate from ".crt" format to ".p12" format, schools should add the options -legacy and -provider-path "path of legacy.dll installed by openssl" into the command to prevent errors from the convention of ".keystore" file in following steps. (e.g. openssl pkcs12 -export - out cert.p12 -inkey key.key -in cert.crt -certfile cacert.crt -legacy -provider-path "C:\Program Files\OpenSSL-Win64\bin")

- 2) Use a System Administrator account to login to the server where the ESDA v5.0.x is installed.
- 3) Copy the e-Certificate in PKCS#12 format (e.g. "cert.p12") to the server (e.g. C:\temp\cert.p12).
- 4) Open "Windows Command Prompt" and enter the following command to convert the e-Certificate in PKCS#12 format into ".keystore"

"%JAVA_HOME%\bin\keytool" -importkeystore -srckeystore C:\temp\cert.p12 -srcstoretype PKCS12 -destkeystore C:\temp\.keystore deststoretype JKS

5) Enter a new password for the ".keystore" file, the password should be the same as the password for the e-Certificate in PKCS#12 format.

```
C:\Users\Administrator>"%JAVA_HOME%\bin\keytool" -importkeystore -srckeystore C:\temp\cert.p12 -srcstoretype PKCS12 -des
tkeystore C:\temp\.keystore -deststoretype JKS
Importing keystore C:\temp\cert.p12 to C:\temp\.keystore...
Enter destination keystore password:
Re-enter new password:
```

6) Enter the password for the e-Certificate in PKCS#12 format.



- 7) Please copy the certificate ".keystore" in the above path (e.g. C:\temp\.keystore) to the installation path "C:\esda_new\apache-tomcat-9.0. xx\conf".
- 8) Edit the Apache Tomcat configuration file (e.g. C:\esda_new\Apache_Tomcat_9.0\conf\server.xml) with a text editor (e.g. Notepad) and change the attribute keystorePass from "changeit" to the password entered in step5.

Iogging-properties	LU/ MY LULL J	NUT PROFERING THE	2 150
👚 server	7/10/2021_1	:26 PM XML Document	8 KB
🖹 tomcat-users	28/4/20	Open	3 KB
tomcat-users.xsd	28/4/20	Edit	3 KB
👚 web	28/4/20	Scan for Viruses	в КВ
<connecto< th=""><th>_</th><th></th><th></th></connecto<>	_		
protocol="or	g.apache.coyo	te.http11.Http11	NioProtocol"
port="443" ma	axThreads="20	0"	
scheme="http:	s" secure="tr	ue" SSLEnabled="	true"
keystoreFile	="conf/.keyst	ore" keystorePas	s="changeit"
clientAuth="	false" sslPro	tocol="TLS" URIE	ncoaing="UTF-

Notes:

If you need to re-establish the e-Certificate in PKCS#12 format to ".keystore" file, please first delete the certificate ".keystore" in the path of step 7 and start over with step 4.

9) Open "Windows" and select "Windows Administrative Tools", then click "Services".



10) Select "Apache Tomcat 9.0 ESDA" and then click "Restart".

g dervices						
ile Action View	/ Help					
• 🔿 📅 📓 🖗	a 😼 🛛 🖬 🕨 🖛 🖬 🕨					
Services (Local)	Services (Local)					
	Apache Tomcat 9.0 ESDATomcat	Name	Description	Status	Startup Type	Log On As
		🖏 ActiveX Installer (AxInstSV)	Provides Us		Manual	Local Syste
	Stop the service Restart the service	Alloyn Router Service	Routes Allo		Manual (Trig	Local Service
	Present the service	🚳 Apache Torncat 9.0 ESDAT	and Annalise To	Running	Automatic	Local System
		Apache2.2-Zend	Start	Running	Automatic	Local Syste
	Description: Apache Torncat 9.0.45 Server - https://torncat.apache.org/	App Readiness	Stop		Manual	Local Syste
		Application Identity	Pause		Manual (Trig	Local Service
		Application Information	Resume		Manual (Trig	Local System
		Application Layer Gateway	Restart		Manual	Local Service
		Application Management	Therease in a second se		Manual	Local Syste
		AppX Deployment Service	All Tasks >		Manual	Local Syste
		Auto Time Zone Updater	Refresh		Disabled	Local Service
		AVCTP service	norean		Manual (Trig	Local Service
		AzureAttestService	Properties	Running	Automatic	Local System
		🧠 Background Intelligent Tra	Help		Manual	Local Syste
		🖏 Background Tasks Infrastru	nep	Running	Automatic	Local Syste
		Base Filtering Engine	The Base Fil	Running	Automatic	Local Service
		Bluetooth Audio Gateway Ser	vice Service sup	-	Manual (Trig	Local Service
		Second and the second	T1 D1 -		14 1071	1.

- B) Creating a self-signed e-Certificate
- 1) Login as a System Administrator to the server where the ESDA v5.0.x system is installed.
- 2) Enter the following command at "Windows Command Prompt":

"%JAVA_HOME%\bin\keytool" -genkey -alias tomcat -keyalg RSA -ext san=dns:< domain name>"

(e.g. "%JAVA_HOME%\bin\keytool" -genkey -alias tomcat -keyalg RSA -ext san=dns:esda.schoola.edu)

Enter a password, e.g. "password"



Enter the password for the steps above: Enter the domain name, e.g. esda.schoola.edu Enter the organizational unit, e.g. esda Enter the organization, e.g. Testing Primary School A Enter the city, e.g. Hong Kong Enter the state, e.g. China Enter the country code (two-letter), e.g. CN

C:\Users\Administrator>"%JAVA_HOME%\bin\keytool" -genkey -alias tomcat -keyalg RSA -ext san=dns:esda.schoola.edu Enter keystore password: Re-enter new password: What is your first and last name? [Unknown]: esda.schoola.edu What is the name of your organizational unit? [Unknown]: esda What is the name of your organization? [Unknown]: Testing Primary School A What is the name of your City or Locality? [Unknown]: Hong Kong What is the name of your State or Province? [Unknown]: China What is the two-letter country code for this unit?

4)

3)

Enter "yes" to confirm the input.

C:\Users\Administrator>"XJAVA_HOMEX\bin\keytool" -genkey -alias tomcat -keyalg RSA -ext san-dns:esda.schoola.edu Enter keystore password: Re-enter new password: What is your first and last name? [Unknown]: esda.schoola.edu What is the name of your organizational unit? [Unknown]: esda What is the name of your organization? [Unknown]: testing Primary School A What is the name of your City or Locality? [Unknown]: Hong Kong What is the name of your State or Province? [Unknown]: China What is the two-letter country code for this unit? [Unknown]: CN Is CH=esda.schoola.edu, OU=esda, O=Testing Primary School A, L=Hong Kong, ST=China, C=CN correct?

5)

Enter the password for the steps above, e.g. "password"

C:\Users\Administrator>"%JAVA_HOME%\bin\keytool" -genkey -alias tomcat -keyalg RSA -ext san=dns:esda.schoola.edu Enter keystore password: Re-enter new password: What is your first and last name? [Unknown]: esda.schoola.edu What is the name of your organizational unit? [Unknown]: esda What is the name of your organization? [Unknown]: Testing Primary School A What is the name of your City or Locality? [Unknown]: Hong Kong What is the name of your State or Province? [Unknown]: China What is the two-letter country code for this unit? [Unknown]: CN Is CN=esda.schoola.edu, OU=esda, O=Testing Primary School A, L=Hong Kong, ST=China, C=CN correct? [no]: yes Enter key password for <tomcat> (RETURN if same as keystore password): Re-enter new password: 6)

The certificate is generated in the above path (e.g. C:\Users\Administrator)



7) Copy ".keystore" from the above path (e.g. C:\Users\Administrator\.keystore) to the installation path "C:\esda_new\apache-tomcat-9.0.xx\conf".

	da_new\apache-tomcat-9.0.45\conf			
	Name	Date modified	Туре	Size
Quick access	.keystore	8/18/2021 11:54 AM	KEYSTORE File	3 KB
Desktop 🖈	a server	8/18/2021 11:54 AM	XML Document	8 KB
Downloads 🛛 🖈	catalina.policy	3/30/2021 11:29 AM	POLICY File	13 KB
🖞 Documents 🛛 🖈	catalina.properties	3/30/2021 11:29 AM	PROPERTIES File	8 KB
📰 Pictures 🛛 🖈	i contest	3/30/2021 11:29 AM	XML Document	2 KB
ReportViewer	jaspic-providers	3/30/2021 11:29 AM	XML Document	2 KB
	jaspic-providers.xsd	3/30/2021 11:29 AM	XSD File	3 KB
This PC	logging.properties	3/30/2021 11:29 AM	PROPERTIES File	5 KB
Network	itomcat-users	3/30/2021 11:29 AM	XML Document	3 KB
	tomcat-users.asd	3/30/2021 11:29 AM	XSD File	3 KB
	🖆 web	3/30/2021 11:29 AM	XML Document	173 KB
	Catalina	9/3/2021 11:03 AM	File folder	

8) Edit Apache Tomcat configuration by using a word processor (e.g. Notepad) (e.g. "C:\esda_new\Apache_Tomcat_9.0\conf\server.xml"). Change the attribute "keystorePass" from "changeit" to the password entered in step 5 (e.g. password).

<connector< th=""><th></th></connector<>	
protocol="org.	apache.coyote.http11.Http11NioProtocol"
port="443" max	Threads="200"
scheme="https"	secure="true" SSLEnabled="true"
keystoreFile="	conf/.keystore" keystorePass="changeit"
clientAuth="fa	lse" sslProtocol="TLS" UKIEncoding="UTF-8"/>

Note:

To re-establish a self-signed e-Certificate, please delete the e-Certificate, ".keystore" generated in the path of step 6 and then restart from step 2.

9) Open "Windows" and select "Windows Administrative Tools", and click "Services".



10) Choose "Apache Tomcat 9.0 ESDA", then click "Restart".

File Action View	/ Help					
(= -) 📆 😨 🤅	a 💩 🛛 🖬 🕨 🖛 🖬 🕨					
🚴 Services (Local)	Services (Local)					
	Apache Tomcat 9.0 ESDATomcat	Name	Description	Status	Startup Type	Log On As
	Stop the service Restart the service	🧠 ActiveX Installer (AxInstSV) 🍓 AlUoyn Router Service	Provides Us Routes AlUo		Manual Manual (Trig	Local Syste Local Service
	Restary the service	😳 Apache Tomcat 9.0 ESDAT	A sector To	Running	Automatic	Local System
		Apache2.2-Zend	Start	Running	Automatic	Local Syste
	Description: Apache Torncat 9.0.45 Server - https://torncat.apache.org/	🧠 App Readiness	Stop		Manual	
		Application Identity	Pause		Manual (Trig	
		Application Information	Resume		Manual (Trig	
		Application Layer Gateway	Restart		Manual	Local Service
		🧠 Application Management			Manual	Local Syste
		AppX Deployment Service	All Tasks >		Manual	Local Syste
		Auto Time Zone Updater	Refresh		Disabled	Local Service
		AVCTP service	Nerreal		Manual (Trig	Local Service
		AzureAttestService	Properties	Running	Automatic	Local System
		🥋 Background Intelligent Tra	Help		Manual	Local Syste
		🧠 Background Tasks Infrastru	нор	Running	Automatic	Local Syste
		Base Filtering Engine	The Base Fil	Running	Automatic	Local Service
		🖏 Bluetooth Audio Gateway Sen	rice Service sup	-	Manual (Trig	Local Service
	1	Mar	T1 01 -		11 1.77	1.10

Note:

As the self-signed e-Certificate is not signed by a recognised CA, the website will be marked as "Not Secure" by the browser when users enter ESDA website (for example, the following screen will appear when using Google Chrome). Users must click "Proceed to" to access the website or refer to Appendix 2 to set up the self-signed e-Certificate at the client side.



Please consider purchasing a valid e-Certificate from a recognised Certification Authority ("CA") (e.g. Hongkong Post) to improve the security.

Appendix 1 Setup ESDA to Use Other Port

The ESDA system uses the "Port 443" by default. If the server has used the "Port 443" for other purposes, System Administrator can follow the steps below to set ESDA to use another port.

- 1) Follow the steps in Chapter 2 to install ESDA.
- 2) Edit Apache Tomcat configuration file (e.g.

C:\esda_new\Apache_Tomcat_9.0\conf\server.xml), change the "Port 443" to other port (e.g. 8443).

<pre><connector <="" port="80" pre="" protocol="HTTP/1.1"></connector></pre>
connectionTimeout="20000"
redirectPort= "443" />
<connector< td=""></connector<>
<pre>protocol="org.apache.coyote.http11.Http11NioProtocol"</pre>
port="443" maxThreads="200"
scheme="https" secure="true" SSLEnabled="true"
<pre>keystoreFile="conf/.keystore" keystorePass="changeit"</pre>
clientAuth="false" sslProtocol="TLS" URIEncoding="UTF-8"/>

3) Restart Apache Tomcat server

Services (Local)					
Apache Tomcat 9.0 ESDA	Name	Description	Status	Startup Type	Log ^
Stop the service	ActiveX Installer (AxInstSV)	Provides Us Routes AllJo		Disabled Manual (Trig.	Loc Loc
<u>Restart</u> the service	Apache Tomcat 9.0 ESDA	Apache To	Running	Automatic	Loc
	🐏 Apache2.2-Zend	Apache/2.2	Running	Au Start	
Description:	🆏 App Readiness	Gets apps re		Mi Stop	
Apache Tomcat 9.0.62 Server - https://tomcat.apache.org/	Application Identity	Determines		Mi Paus	e
incipal, , contractopolation g	🍓 Application Information	Facilitates t	Running	Mi Resu	me
	🍓 Application Layer Gateway	Provides su		Ma Rest	
	🍓 Application Management	Processes in		Mi Kest	art
	🍓 AppX Deployment Service (Provides inf		Mi All T	asks
	🙆 Auto Time Zone Undater	Automatica		Die	

4) Follow the steps in Section 3.1 to test the system with the new port. (e.g. https://127.0.0.1:8443/school).

Appendix 2 Setup Self-signed e-Certificate at Client Side

1) When accessing the website by Google Chrome, the website will be marked as "Not secure" by the browser. Click "Not secure".



2) Click "Certificate is not valid".



3) Ensure that the "Issued to" in the Certificate has the same domain name as the actual domain name. If the domain names are different, please refer to Section 2.3 to create a new Certificate.



4) Click "Details" tab. Ensure the "Subject Alternative Name" in the Certificate has the same domain name as the actual domain name. If the domain names are different, please refer to Section 2.3 to create a new Certificate.



5) Click "Copy to File".

🛺 Certif	cate				×
General	Details	Certification Pa	th		
Show:	< A >		~		
Pu Pu Su Su Th	bject Alte	arameters rnative Name Identifier algorithm	RSA (2048 Bits 05 00 DNS Name=es 29 ce 69 16 19 sha1	edu, esda, scho ;) da.schoola.edu 9 91 45 7b 88 73 ; ee 4c 8b e1 44	< >
1			Edit Properties	Copy to File	
				O	к

6) Click "Next".



7) Click "Next".

rt File For Certificat	es can be exported in a variety of file formats.
elect the	e format you want to use:
● DE	R encoded binary X.509 (.CER)
ОBa	se-64 encoded X.509 (.CER)
OCr	yptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
	Include all certificates in the certification path if possible
OPe	rsonal 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
	Enable certificate privacy
	crosoft Serialized Certificate Store (.SST)

8) Click "Browse", and save the Certificate to a specified path (e.g. C:\), and then click "Next".

← ,	🚰 Certificate Export Wizard	×
	File to Export Specify the name of the file you want to export	
	Fie name:	_
	Browse	
	Next Cancel	

9) Click "Finish".

ompleting the Certificate	Export Wizard
ou have successfully completed the Certif	icate Export wizard.
u have specified the following settings: Its itsme	C:\schools.cer
xport Keys	No
include all certificates in the certification p	aeth No
le Format	DER Encoded Binary X. 509 (*/

10) Go to "Settings" of Google Chrome.



11) Click "Privacy and security", and then click "Security".

0	Settings	Q, Search settings	
*	You and Google	Your browser is managed by your organization Safety check	
È	Autofill	earery encer	
0	Privacy and security	Chrome can help keep you safe from data breaches, bad estensions, and more Check now	
۴	Appearance	Privacy and security	
Q	Search engine	Clear browsing data	
	Default browser	Clear history, cookies, cache, and more	
Ċ	On startup	Cookies and other site data Third-party cookies are blocked in incognito mode	
Adva	nced -	Security Safe Browsing (protection from dangerous sites) and other security settings	
*	Extensions	部 Site Settingx Controls what information sites can use and show (location, camera, pop ups, and more)	
۲	About Chrome	Theory Sandhos 12	

12) Click "Manage certificates".

This setting is disabled on managed browsers	~
Manage security keys Reset security keys and create PINs	×
Manage certificates Manage HTTPS/SSL certificates and settings	Ľ
Google Advanced Protection Program Safeguards the personal Google Accounts of anyone at risk of targeted attacks	

13) Click "Trusted Root Certification Authorities" tab, and then click "Import".

Certificates					×
Intended purpose: <a>	`				~
Intermediate Certification A	uthorities Trusted Root Co	ertification Aut	horities	Trusted Publ	• •
Issued To Issued To AAA Certificate Ser Actalis Authenticati AddTrust External Baltimore CyberTru Buypass Class 3 Ro Certum CA Certum Trusted Ne Class 3 Public Prima	Actalis Authentication AddTrust External CA Baltimore CyberTrust Buypass Class 3 Root Certum CA	30/5/2020 13/5/2025 26/10/2040 11/6/2027 31/12/2029	Sectigo DigiCer Buypas Certum Certum	> (AAA) Authentic (AddTrust) t Baltimor s Class 3	~
Import Export	Remove 25			Advar View	iced
				Clos	e

14) Click "Next".



15) Click "Browse". Select the certificate exported in step 8 and then click "Next".

←	F Certificate Import Wizard	>
	File to Import Specify the file you want to import.	
	File name: C}\schoola.cer	
	Note: More than one certificate can be stored in a single file in the following formats: Personal Information Exchange- PKCS #12 (.PFX,.P12)	
	Cryptographic Message Syntax Standard-PKCS #7 Certificates (.P7B) Microsoft Serialized Certificate Store (.SST)	
	Next Cance	I

16) Click "Next", and then click "Complete".

Certificate stores are system areas where certificates are kept. Windows can automatically select a certificate store, or you can specify a location f the certificate. Automatically select the certificate store based on the type of certificate Place all certificates in the following store Certificate store: Trusted Root Certification Authorities Browse	Certificate 9	Store			
the certificate. Automatically select the certificate store based on the type of certificate Place all certificates in the following store Certificate store: 	Certific	ate stores are system	n areas where certific	ates are kept.	
Place all certificates in the following store Certificate store:	Windov the cer	vs can automatically s tificate.	elect a certificate sto	re, or you can spec	ify a location for
Certificate store:	0	Automatically select th	ne certificate store ba	sed on the type of	certificate
	۲	Place all certificates in	the following store		
Trusted Root Certification Authorities Browse		Certificate store:			
		Trusted Root Certifi	cation Authorities		Browse

17) If the following Security Warning appears, click "Yes".

ecurity W	arning	
	You are about to install a certificate from a certification authority (CA) claiming to represent:	
	esda.schoola.edu	
	Windows cannot validate that the certificate is actually from "esda.schoola.edu". You should confirm its origin by contacting "esda.schoola.edu". The following number will assist you in this process:	
	Thumbprint (sha1): 8279A5EA F6EE4C8B E1444977 A673F784 BC7556FA	
	Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.	
	Do you want to install this certificate?	
	Yes No	

18) Restart the Google Chrome and access the website again. The browser will show that the connection is secure.



Appendix 3 Verify ESDA's port availability

If ESDA cannot be accessed after installation, System Administrator may follow the steps below to verify whether the port used (e.g. default port 443) by ESDA v5.0.x is available.

1) In a computer that can connect to ESDA v5.0.x, run the "Windows PowerShell" as an Administrator.



2) Execute the following command "Test-NetConnection [ESDA v5.0.x server IP address] -port [port]" (e.g. Test-NetConnection 10.15.7.91 -port 443) in "Windows PowerShell".

ComputerName RemoteAddress RemotePort	Test-NetConnection 10.15.7.91 -port 443 : 10.15.7.91 : 10.15.7.91 : 443 : Ethernet0 : 192.168.188.133 : True : 2 ms : True
PS C:\Windows\system32>	· _

- 3) Ensure "TcpTestSucceeded" is "True".
- 4) If "TcpTestSucceeded" is "False", please check again whether the port used by ESDA v5.0.x is available or blocked by firewall, such as Windows Firewall, Antivirus software's firewall or other firewall software installed in the server.

Appendix 4 Solution for the failure to connect SQL server

If ESDA cannot be accessed after installation or updating, System Administrator may follow the steps below to check ESDA v5.0.x.

		Error × Carmot connect to the database, please refer to Appendix 4 of "Installation and Uata Migration Guide" for database valuation
「學校發展與問責」數據電子平台 Feptations for School Development and Accountsbility (FSDA) ———	Welcome to ESDA	Coulder" for the label oclution
Image: A set of the set	School Login Plat	form @
Version : Technical Support Please note that when tending personal data, you should abide by the "Personal Data (Privacy) Crefittanet". For details, please visit the website of the Office of the Privacy Commissioner for Personal Data at : https://www.pcpl.org/dk/bindes/html	Note: The survey is conducted in anonymous manner.	P1

A. After the first installation of ESDA, the message "unable to connect to the database" appears.

Did the school use the correct system installation tool?

Full Installation Package (For Windows Server 2016 version or above / Windows 10 version or above)

If an incorrect version is installed, ESDA may fail to connect to the database. Please delete the ESDA version 5.0.x and reinstall ESDA by using the correct installation package.

B. After updating the ESDA system, the message "unable to connect to the database" appears.

Method 1:

- 1) Login to the ESDA server.
- 2) In the File Explorer, open the path "C:\esda_new" and look for a file named "PPU_RestartTomcatService.bat". Run this file.

24稱	修改日期	類型	大小
Apache_Tomcat_9.0	2023/3/7 下午 02:37	檔案資料夾	
edb-school-logs	2023/3/7 下午 02:37	檔案資料夾	
Openlogic_Openjdk_8u262	2023/3/7 下午 02:13	檔案資料夾	
💿 checklfReg.bat	2022/12/23 上午 09:41	Windows 批次檔案	1 KB
checklfReg.txt	2023/3/7 下午 02:37	文字文件	1 KE
📄 init_edb.log	2023/3/7 下午 02:37	文字文件	34 KE
PPU_RestartTomcatService.bat	2023/2/9 下午 11:35	Windows 批次檔案	1 KE
unins000.dat	2023/3/7 下午 02:13	DAT 檔案	374 KE
r↓_ unins000.exe	2023/3/7 下午 02:11	應用程式	3,146 KE

Note:

■ If the system displays "The system cannot find the specified path" during execution, it means that the default "Apache Tomcat 9.0 ESDA" path cannot be found on the ESDA server to restart the service. Please proceed to Method 2.

			-	
C:\Windows\System32\cmd.exe		_		
图4978人创新定的成为。				
名统治太知提告的路德。				
Apache Toncat 9.0 ESDA 服務正在停止.				
Apache Toneat 9.0 ESDA HEATEATEAT				
If the execution file cannot	be found please proceed	to Method 2		
	be round, prease proceed			

3) Wait for about 1 minute, then browse the ESDA system again (e.g., https://localhost/school).

Method 2:

- 1) Login to the ESDA server.
- 2) Select "Apache Tomcat 9.0 ESDA" and click "Stop Service".

	10 00 0000 0000 0000 00000 000000 000000			
🗼 服務 (本欄)	Q) 服務(本機) 停止服務			
	Apache Tomcat 9.0 ESDA	8 6	描述 机强	啟動類型 登入身分
		ActiveX Installer (AxInstSV)	21-21	季動 Local Sys
	<u>停止服務</u> 重新給費服務	Adobe Acrobat Update Service	Ado 軌行中	自動 Local Sys
	AT 21 AL EN DE SE	Alloyn Router Service	き 新…	手動 (觸 Local Ser
		AnyDesk Service	Any 载行中	自動 Local Sys
	提問: Apache Torncat 9.0.65 Server - https://torncat.apache.org/	Apache Tomcat 9.0 EdbTomcat	Apa	予創 Local Ser
		Apache Tomcat 9.0 ESDA	Apa 秋行中	음화 Local Sys
	https://toincacapacito.org/	Apache Tomcat 9.0 ESDATomcat	Apa	子動 Local Ser
		Apache2.2-Zend	Apa_, 執行中	目前 Local Sys
		🖏 App Readiness	情况	平助 Local Sys

3) In the File Explorer, open the path "C:\esda_new\apache-tomcat-9.0\webapps". Delete the folders "esda-school" and "school".

(C:)	^	名稱 ^	修改日期	調理	大小
W/S.~BT		docs	2022/10/11 上午 11:04	楊富寶科英	
rs.∼WS		esda-school	2022/10/12 下午 04:06	楊禽寶科英	
		examples	2022/10/11 上午 11:04	楊禽寬料夾	
over		host-manager	2022/10/11 上午 11:04	楊震資料來	
iver		manager	2022/10/11 上午 11:04	楊鳳寶科來	
lth		ROOT	2022/10/11 上午 11:04	福熙資料來	
ich		school	2022/11/4 上午 10:50	福熙資料夾	
		esda-school.war	2022/10/12 下午 04:06	WAR 檔案	113,348 KB
pp		school.war	2022/10/12 下午 04:06	WAR 檔案	4,865 KB

4) Go to "Services", select "Apache Tomcat 9.0 ESDA", and click "Start Service".

警察(F) 副作(A) ▶ ➡	編視(V) 説明(H) ♥ @ 🕞 📓 📰 🕨 ■ Ⅱ II>					
🔍 屈稲 (本機)	〇、服務(本権) 創設設					
	Apache Tomcat 9.0 ESDA	名類	描述	狀態	啟動類型	登入赛分
1881 Apr		ActiveX Installer (AxinstSV)	針勁		手創	Local Sys.
	<u>飲創</u> 服務	Adobe Acrobat Update Service	Ado	载行中	白色	Local Sys.
		AlUoyn Router Service	21 23		手動 (概	Local Ser.
	/描述:	🖏 AnyDesk Service	Amy	執行中	目動	Local Sys.
	Apache Torncat 9.0.65 Server -	Apache Tomcat 9.0 EdbTomcat	Apa		子動	Local Ser.
	https://tomcat.apache.org/	Apache Tomcat 9.0 ESDA				Local Sys.
		Apache Tomcat 9.0 ESDATomcat	Ape		手創	Local Ser.
		Apache2.2-Zend	Apa	執行中	白動	Local Sys.
		🖏 App Readiness	備系		手動	Local Sys.
		Application Host Helper Service	21 S	動行中	8.00	Local Sys

5) Wait for about 1 minute, then browse the ESDA system again (e.g., https://localhost/school).

Note:

If the above methods cannot help solve the problem, please contact the Indicators Section of the EDB.

Appendix 5 Enable Port 443 on Windows

If ESDA cannot be accessed via the school intranet, please enable Port 443 on Windows. To enable Port 80, 443, you need to add these to the Windows Firewall.

Network 4

new app

Notify me when Windows Defender Firewall blocks a

1) Go to Firewall Control Panel by selecting "Start" > "Run", and type "firewall.cpl". Click "Advanced Settings" on the left side.

Help protect your PC with Windows Defender Firewall Control Panel Home Windows Defender Firewall can help prevent hackers or malicious software from gaining access to your PC Allow an app or feature through the Internet or a network. through Windows Defender Firewall Private networks Not connected 😔 Change notification settings Turn Windows Defender 🗸 Guest or public networks Connected (^ Firewall on or off Networks in public places such as airports or coffee shops Restore defaults 💡 Advanced settings Windows Defender Firewall state: On Troubleshoot my network Incoming connections: Block all connections to apps that are not on the list of allowed apps

2) Click on "Inbound Rules" showing on left side.

Active public networks:

Notification state:

/		2				
P Windows Defender Firewall with	Advanced Security				- 0	\times
File Action View Help						
🗢 🏟 🗖 📷 🕞 📓 📷						
Windows Defender Firewall with	Inbound Rules			Actions		
Cutsound Rules	Name	Group	Profile ^	Inbound Rules		•
Connection Security Rules	S Firefox (C:\Program Files\Mozilla Firefox)		Private	🔯 New Rule		
> Nonitoring	S Firefox (C:\Program Files\Mozilla Firefox)		Private	Filter by Profile		,
-	Microsoft Lync		Public	Filter by State		
	Microsoft Lync		Public			
	Microsoft Lync UcMapi		Public	Filter by Group		
	Microsoft Lync UcMapi		Public	View		
	Microsoft Office Outlook		Public	C Refresh		
	O Spark		Public	Export List		
	Spark	00F 0.0 10 10 10	Public			
	@@(Microsoft.DesktopAppinstaller_1.0.220 @ @05.come@ Managing 2 42 22201 0 -64			👔 Help		
	Ø @(Microsoft.Messaging_3.43.27001.0_x64					
	@ @{Microsoft.MicrosoftOfficeHub_17.891	@{Microsoft.MicrosoftOffic	Downar			

- 3) Under the "Action", click on "New Rule" on the right-side panel.
- 4) A new window pop-up, please choose "Port" and click the "Next" button.

5) Select "TCP" and "Specific local ports" and fill in "80, 443" and click "Next".



6) Select "Allow the connection" and click "Next".

🔗 New Inbound Rule Wizard		×
Action		
Specify the action to be taken whe	an a connection matches the conditions specified in the rule.	
Steps:		
Rule Type	What action should be taken when a connection matches the specified conditions?	
Protocol and Ports	Allow the connection	
Action	Ihis includes connection that are protected with IPsec as well as those are not.	
Profile		
• Name	 Allow the connection if it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customize Block the connection Ket > Cancel Ket > Cancel Cancel<!--</td--><td></td>	

💣 New Inbound Rule Wiza	ard X
Profile	
Specify the profiles for which th	is rule applies.
Steps:	
Rule Type	When does this rule apply?
Protocol and Ports	
Action	Domain
Profile	Applies when a computer is connected to its corporate domain.
Name	 Private Applies when a computer is connected to a private network location, such as a home or work place. Public Applies when a computer is connected to a public network location.
	< Back Next > Cancel

7) Select the "Domain" and "Private" options and click "Next".

8) Fill in "ESDA" and click "Finish".

1	New Inbound Rule Wizard		×
N	lame		
S	ecify the name and description	of this rule.	
_	eps:		
	Rule Type		
	Protocol and Ports		
- I	Action	Name:	
_	Profile	ESDA	
•	Name		
		Description (optional):	
		< Back Finish Cance	el

Appendix 6 Uninstalling ESDA

System Administrator may follow the procedures below to uninstall ESDA.

1) Open Control Panel and click "Remove Programs".



2) Select "ESDA version 5.0.x", click "Uninstall".

Programs and Features					- [×
\leftarrow \rightarrow \checkmark \bigstar \blacksquare > Control	⇒ * ↑ a > Control Panel > Programs > Programs and Features					
Control Panel Home	Uninstall or change a program					
View installed updates To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.						
Turn Windows features on or off	Organize 🔻 Uninstall				()=== == ()===	• ?
	Name	Publisher	Installed On	Size	Version	
	Browser for SOL Server 2019	Microsoft Corporation	16/6/2022	10.9 MB	15.0.2000.5	
	ESDA version 5.0.0	ATOS	16/6/2022	343 MB	5.0.0	
	😨 Google Chrome	Google LLC	15/6/2022		102.0.5005.115	

3) Click "Yes" to confirm uninstalling ESDA.

← → × ↑ 🖬 > Control I	Panel > Programs > Programs and Features			ע ט Search	Programs and Features	P
Control Panel Home	Uninstall or change a program					
View installed updates	To uninstall a program, select it from the list and then click	Uninstall, Change, or Repair.				
Turn Windows features on or						
off	Organize 🔻 Uninstall					6
	Name	Publisher	Installed On	Size	Version	
	ESDA version 5.0.0	ATOS	16/6/2022	343 MB	5.0.0	
	Google Chrome	C	15/6/2022		102.0.5005.115	
	HeidiSQL 11.3.0.629 ESDA Uninstall	×	16/3/2022	56.6 MB	11.3	
	🛃 Java(TM) 6 Update 4		16/3/2022	98.0 MB	6.0.450	
	Hicrosoft Help View Are you sure you want to cor	npletely remove ESDA and all of	16/3/2022	12.1 MB	2.3.28107	
	Microsoft ODBC Drive its components?		16/3/2022	7.24 MB	17.7.2.1	
	Microsoft OLE DB D		16/3/2022	9.75 MB	18.5.0.0	
	Microsoft SQL Serve	100 million (100 million)	16/6/2022	9.71 MB	11.4.7462.6	
	Microsoft SQL Serve	Yes No	16/6/2022			

Appendix 7 Cross-Platform Data Migration Procedures

- 1) Login system as System Administrator.
- 2) In the left directory, click "System Tools" and then click "System Update" to upgrade ESDA to the latest version.

ESDA	E-platform for School	Development & A	ccountability (ESDA)		
「単位發展與問責」都接電子平台 E-platform for School Development and Accountability (ISSDA)	System Tools / System	em Update			
and Accountability (ESDA)	System Overview • System	em Update 🔹			
	System Update				
	Maintenance Mode		pre updating the data package.		
O System Setting					
	C Import Offline D	ata Package 🛛 🔇	Import Offline School-based Su	rvey Data Package	
O System Backup	Link to download Of The latest version in		ersions		
O System Update	Online Package L	ist			
	Package Type	Version	Release time	Description	Action
User Management					No Update

 Click "System Setting". The school's Registration Key can be obtained under "System Registration".
 School Badge Upload

	School Dauge (phoad
	C Reset	Upload Upload Image of 250 x 100 Pixels or 250% ratio size [JPG/JPEG/PNG File Format]
E	System Registr	ation
	School Level	Secondary School
C	Registration Key	

4) Click "System Backup" and click "Manual Backup". The system will generate a backup file to the backup file directory.

stem Backup				Screen ID: system-backup-00
Program Package Version: v5.	1.13	Data Package Version:	v1.3.5	
Installation Directory: D:\	.esda_new	Backup file directory:	D:\esda_backup	
Manual backup				
atabase backup records				
File Name	Backup Date	Backup Method	Action	
		No Data		

Note:

- System Administrator, please move the backup file to a safe place.
- 5) Install ESDA on a new server. Please refer to Section 1.2 for details.

6) Select the "School Level" and paste the Registration Key obtained from Step 3, then click "Register".

School Badg	ge Upload						
Q Reset	• Upload	400.01					
		100 Pixels or 200% ra	tio size [JPG/JPEG/PNG File Fi	ormatj			
System Regi	istration						
School Level	Select						
Registration I	Key	-	-	-	-		
							🖉 Register

- 7) Repeat Step 2 to upgrade ESDA to the latest version on the new server.
- 8) Repeat Step 4 to generate a backup file directory on the new server.
- 9) Save the backup file obtained from Step 4 of the old server to the backup file directory of Step 8, then unzip the backup file.

> This PC > Local I	Disk (C:) 👌 backup				~ Č))	O Search b
	Name		Date modified	Туре		Size	
*	ESDA-503-2	2022-02-10-091212.zip	10/2/2022 9:12 am	Compressed (zip	ped)	27	4,504 KB
*							
*						×	
Å	<i>←</i>	Extract Compressed (Zipp	ed) Folders				
		Select a Destination an	d Extract Files				
(10)		Files will be extracted to this f	older:				
ersonal		C:\backup\ESDA-503-2022-0	02-10-091212	Brow	se		
		Show extracted files when	complete				
C)							
C:)					6		
				Extract	Canc	ei	

10) Run Restore Tool.exe as System Administrator.

Name	Date modified	Туре	Size	
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
🖌 📙 app	10/2/2022 9:19 am	File folder		
runtime	10/2/2022 9:19 am	File folder		
Zz esda-school.war	26/1/2022 9:48 am	WAR File	109,557 KB	
🖈 📄 esda-school-db.bak	10/2/2022 9:12 am	BAK File	160,900 KB	
🖈 💿 packager.dll	23/12/2021 2:54 pm	Application extens	256 KB	
Readme.txt	20/12/2021 11:56 am	Text Document	1 KB	
S Restore Tool.exe	23/12/2021 2:54 pm	Application	19 KB	
🜆 Restore Tool.ico	23/12/2021 2:54 pm	lcon	4 KB	
z school.war	26/1/2022 9:43 am	WAR File	4,047 KB	

onal

11) The data recovery will be started.

Restore Tool —	\times
Running Tomcat stopped. Database restored Program restored Tomcat started Restore successful	

Note:

If error is found during the restoration, please send the log file (α) to the Indicators Section of EDB.

ightarrow	C > New Volume (D:) > esda_backup > ESDA-519-2022-06-20-220011 > app
Quick access Control Quick access Control Con	Name

-- End --