E-platform for School Development & Accountability (ESDA) Version 5.1.x

Installation and Data Migration Guide

November 2023

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ESDA v5.1.x Installation and Data Migration Guide

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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 (https://www.edb.gov.hk/en/sch-admin/sch-quality-assurance/performance-indicators/esda/self-learning.html).

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 Introduction to Installation and Data Migration

1.1 Workflow



Chapter 2 Pre-Installation Preparation and Checking

2.1 "ESDA v4.6.0" System Update

System Administrator may update the ESDA system to its latest version by an auto-update function. If the existing ESDA system does not have the auto-update function (e.g. version 4.4 or below), System Administrator should contact the Indicators Section of the EDB for enquiry. Besides, System Administrator should complete the following tasks before the system upgrade:

- Schedule a suitable timeslot for the updating (e.g. after completion of all outstanding surveys)
- Complete a full backup on the ESDA system and data
- Print all survey reports and save all softcopies (if applicable)
- Prepare for roll back procedure (in case the upgrade task fails)
- Upgrade to v4.6.0 and verify if it is completed successfully

2.2 "ESDA v4.6.0" System Health Checking

System Administrator should run the health check, which check for the required system tools and resources. System Administrator may run the following steps:

- 1) Login ESDA v4.6.0 as "admin".
- 2) Mouse over "System Tools" and then click "System Setting".
- 3) Click "System Health Checking".

System Registration	
Password Length	3 (Min) 16 (Max)
Can Change Password	Administrator Teacher Student Parent Others
Password Management	

- All updated packages can be downloaded in the ESDA website.(http://esda.edb.gov.hk)
- <u>Advanced System Setting</u>

System Health Checking

4) On the health check page, verify the following:

- ✓ There is sufficient free disk space. Free space of more than 10GB is suggested.
- ✓ All status is [OK] instead of [Failed]
- ✓ Java version is "1.6.0_45"
- ✓ Database structure is [OK] instead of [Table Structure Checking]...[Failed]

```
apasolevelmapping [OK]
apasoolddataimportedrecord [OK]
apasoquestion [OK]
apasoquestion_new [OK]
apasoraschmap [OK]
apasoresponse [OK]
apasoresponseanswer [OK]
apasoscale [OK]
apasosubscale [OK]
apasosubver [OK]
```

✓ Checking Connection to EDB is [Connection OK]

```
Checking apache...
- Version: Apache/2.0.52 (Win32)
Checking PostESR Server Address...
```

postesr.edb.gov.hk...[OK]

Checking PostESR Server Connection... postesr.edb.gov.hk...[Connection OK]

Checking Folder C:\Program Files\esda/datadir/patch/ availability... Successfully created folder C:\Program Files\esda/datadir/patch/ [Repair OK]

Note:

Please make sure all the status is [OK] instead of [Failed] before data migration.

2.3 "ESDA v4.6.0" Database Backup

System Administrator should back up the ESDA directory, e.g. "C:\Program Files\ESDA", to a backup device (e.g. external hard disk). System Administrator can check the installed directory from the following interface and launch the backup procedure:

System Information	
System Version	esda v.4.5.7
System Platform	Windows
System Support Email	indicators@edb.gov.hk
Backup File Directory	d:\esda\db\backuplog
Installed Directory	d:\esda
Generate Backup File	
Generate database backup file	Generate
Restore backup	
Administrator password	(Required)
Database backup log (Latest 10 files)	

- Mouse over "System Tools" and then click "System Backup Procedure".
- Check the "Installed Directory".
- Click "Generate" to generate the database backup. A backup file will be generated with the format of file name as "ESDA-patch_level-YYYY-MM-DD-hhmmss.sql".

2.4 "ESDA v4.6.0" Directory Backup

For complete ESDA directory backup, stop the ESDA service and then copy the installed directory (e.g. C:\Program File\ESDA) to a backup folder (e.g. d:\esda_backup) or a backup device.

Note:

System Administrators must stop the ESDA system before running the backup tool, and start the system again after the backup process is completed.

- To stop ESDA service: run "c:/program files/esda/installer/serverStop.bat" in ESDA v4.6.0 server
- To start ESDA service: run "c:/program files/esda/installer/serverStart.bat" in ESDA v4.6.0 server
 - If ESDA is installed at "c:\Program Files\ESDA", two directories ("c:\Program Files\ESDA\db\backupLog" and "c:\Program Files\ESDA\mysql\data") must be properly copied. The first directory (i.e. "c:\Program Files\ESDA\db\backupLog") is the backup data directory. The second directory (i.e. "c:\Program Files\ESDA\mysql\data") is user data directory. All Surveys and Survey Items are stored in MySQL database.

2.5 Download Installation and Data Migration Tool

1) Login to the Windows Server as an Administrator or as a user with administration rights.

2) Launch a browser and visit the webpage with the URL <u>https://www.edb.gov.hk/en/sch-admin/sch-quality-assurance/performance-indicators/esda/download.html</u> for downloading the full ESDA installation programme (esda-v5.0.x.exe) and data migration tool to your computer.



2.6 Checking Hardware Configuration of System

To ensure a stable performance of ESDA v5.0.x, the following configurations are suggested for the system.

	Basic Requirements	Suggested Requirements			
Processor 2 core 64-bit (x64) processor		4 core 64-bit (x64) processor			
Memory	4 GB RAM	16 GB RAM			
Harddisk	128 GB	512 GB			
Network	Support TCP/IP network with a	Support TCP/IP network with a			
Configuration	static IP address	static IP address			
Operating System	Windows Server 2016 or above	Windows Server 2019 or above			
Supported	Google Chrome version 87 or	Google Chrome version 87 or			
Internet Browser	above	above			
	Opera version 61 or above	Opera version 61 or above			
	Safari version 14 or above	Safari version 14 or above			
	Edge version 46 or above	Edge version 46 or above			
	Firefox version 86 or above	Firefox version 86 or above			

Adequate system requirements depend on how to conduct surveys by schools. For example, the "Suggested Requirements" above can support students in a year level (almost 200 students) to complete an online survey simultaneously. Schools are suggested to use a faster processor and spare more memory if it is planned for more students to complete an online survey simultaneously.

In general, schools should install ESDA v5.0.x on Windows Server 2016 (or its latest version).

Notes

 Before installation, please ensure that "Port 443" is available. If the "Port 443" is used by another application, please close that application for installing ESDA v5.0.x. If the "Port 443" is set for other uses of the server, System Administrator may refer to the Appendix 1 for setting up ESDA with other ports. 2) Before installation, please set the ESDA v5.0.x system recommended browser as the default browser of the server.

Chapter 3 Installing ESDA

3.1 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	der, 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.

🚽 Setup - ESDA version 5.0.0	_	□ ×
Installing		
Please wait while Setup Installs ESDA on your computer.		(1101)
Extracting files		
C:\esda_new\SQLEXPR_x64_ENU\1033_ENU_LP\x64\Setup\x64\MSOLEDBSQL.MSI		
		Cancel

5) Installing the MSSQL.

1 SOL Server 2019 Setup			-		×	
Install Setup Files If an update for SQL Server Set	up is found and specified to be included, t	he update will be installed.				
Install Setup Files Installation Progress						
	Task	Status				
	Scan for product updates	In Progress				
	Download Setup files	Not started				
	Extract Setup files	Not started				
	Install Setup files	Not started			_	
	-					
			_		_	
		< Back No	1 >	Cance	5	
					11	

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, click Next.
	ESDA 5.0.0 URL: https://localhost/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.
Inom	
0	
	8.4 5.4
	Badi: Finish

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

Chapter 4 Testing after Installation

4.1 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 related data reports, tus promoting their efficiency in conducting SSE and alleviating the administration of the second school of the second schoo	 学校協民県姓氏, #維電子中台 Splotform for School Development and Accountability (ESDA) Chool Login Platform @ Login Name Login Password
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.

4.2 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 De	velopment & Accountability (ESDA)	The Selected School Year : 2021-22	
Home / System Overvi	iew .	Text Size <table-cell> 🏭 🔺 admin 👻</table-cell>	
System Overview		Change Password	
110	og 110 💦 20	1 Online Help	
Change Password		Screen ID: nav	-002 ×
* Old Password	Please Enter Old Password	0	
* New Password	Please Enter New Password	0	
* Confirm Password	Please Enter Confirm Password	0	
		⊗ Cancel ⊘ Con	firm

4.3 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.

chool Badge U	pload					
C) Reset	 Upload Upload Image of 2 	50 x 100 Pixels or 250% ra	itio size [JPG/JPEG/PNG File	Format]		
ystem Registra	ition					
School Level	Select				~	
Registration Key		-		-		

4.4 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 <u>Link to download Offline Data Package</u> 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 Deve	platform for School Development & Accountability (ESDA)				
「中心的意味問題」的後期中午台 C-platform for School Development	🗮 System Tools / System U	pdate			Text Size 🕥 🏢 🔺 admin +	
and Accountability (ISDA)	System Update +					
🖌 System Tools 👘 🔿	System Update				Screen IC: system-spilete-007	
O System Update	Maintenance Mode Maintenance Mode Plase switch to the Maintenance Mode before updating the data package. Plase switch to the Maintenance Mode before updating the data package. Unit to clownload Offline Data Package 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 12:82:09		G Update	

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



Chapter 5 Data Migration

5.1 "ESDA v4.6.0" Database Connection Test

To ensure the ESDA v5.0.x server is able to connect with the database of the ESDA v4.6.0 system, System Administrator should run the following connection test before performing the data migration:

1) In the server of ESDA v5.0.x, run the "Windows PowerShell" as an Administrator.



2) In "Windows PowerShell", execute the following statement "Test-NetConnection [IP address of the server of ESDA v4.6.0] -port 3306". If ESDA v4.6.0 system and ESDA v5.0.x system are installed on the same server, please use 127.0.0.1 as the IP address of the ESDA v4.6.0 server. (e.g. Test-NetConnection 127.0.0.1 -port 3306).



- 3) Make sure the "TcpTestSucceeded" is "True".
- 4) If "TcpTestSucceeded" is "False", please check again whether the port 3306 of the ESDA v4.6.0 system is not opened yet or blocked by firewall such as Windows Firewall, firewall of the Antivirus software or other firewall software installed in the server.

5.2 "ESDA v4.6.0" Domain Name System (DNS) Settings

If ESDA v4.6.0 system and ESDA v5.0.x system are installed in the same server, please skip this section and read section 5.3 direct. If ESDA v4.6.0 system and ESDA v5.0.x system are installed in different servers, and cannot find the host name of the ESDA v5.0.x server through DNS, please add a new entry for the mapping between the host name and the IP address of the ESDA v5.0.x system (e.g. 10.10.10.1 newesda, if the host name is newesda and the IP address is 10.10.10.1 for the ESDA v5.0.x system).

File Edit Format View H	elp	
# Copyright (c) 1993-3	2009 Microsoft Corp.	
# This is a sample HOS	STS file used by Micro	soft TCP/IP for Windows.
4		
# This file contains !	the mappings of IP add	resses to host names. Each
# entry should be kep	t on an individual lin	we. The IP address should
# he placed in the fir	nst column followed by	the corresponding host name.
# The IP address and t	the host name should b	e separated by at least one
# space.		
# # Additionally, comment	nts (such as these) ma	w be inserted on individual
<pre># Additionally, comment # lines or following to</pre>	nts (such as these) ma the machine name denot	<pre>y be inserted on individual ted by a '#' symbol.</pre>
# Additionally, comment # lines or following *	nts (such as these) ma the machine name denot	<pre>vy be inserted on individual ted by * '#' symbol.</pre>
# # Additionally, comment # lines or following * # # For example:	nts (such as these) mu the machine name denot	wy be inserted on individual ted by a '#' symbol.
Additionally, comment lines or following t For example:	nts (such as these) mu the machine name denot	wy be inserted on individual ⊎ed by a '#' symbol.
# Additionally, commen # lines or following (# For example: # 182,54,94,97	nts (such as these) mu the machine name denot rhino.acme.com	ny be inserted on individual Hed by * "#" symbol.
# Additionally, comment lines or following to # For example: 182.54.94.97 38.25.63.10	nts (such as these) mu the machine name denot rhino.acme.com x.acme.com	<pre>wy be inserted on individual ed by * '#' symbol. # source server # x client heat</pre>
# Additionally, commen # lines or following 1 # For example: # 182.54.94.97 # 38.25.63.10	nts (such as these) mu the machine name denot rhino.acme.com x.acme.com	wy be inserted on individual ed by ★ "#" symbol. # source server # x client host
# Additionally, comme # lines or following # For example: # 102.54.94.97 # 38.25.63.10 # localhost name reso	nts (such as these) mo the machine meme denot rhino.acme.com x.acme.com lution is handled with	<pre>wy be inserted on individual ed by * '#' symbol.</pre>
<pre># Additionally, comment lines or following to For example: 182.54.94.97 38.25.63.10 # localhost name resol 122.8.0.1</pre>	nts (such as these) mu the machine name denot rhino.acme.com x.acme.com lution is hendled with localhost	<pre>wy be inserted on individual and by * "#" symbol. # source server # x client host win DNS itself.</pre>
<pre># Additionally, comment lines or following # For example: # 182,54,94,97 # 38,25,63,10 # localhost name resol 122,0.0.1 ;;;1</pre>	nts (such as these) we the machine name denot rhino.acme.com x.acme.com lution is handled with localhost localhost	<pre>wy be inserted on individual wd hy * '#' symbol. # source server # x client host win DNS itself.</pre>

5.3 Performing Data Migration

- 1) Login to the server where the ESDA v5.0.x is installed as an Administrator or as a user with administration rights.
- 2) Put the Data Migration Tool on the Desktop of the server and extract the file.



3) Run the Data Migration Tool as an Administrator.

_ > [Data Migra	tion Tool					
	-	Name	Date modified	Туре	Size		
	*	app	23/5/2022 10:43 AM	File folder			
		nuntime	23/5/2022 10-43 AM	File folder			
	Я	Data Migration Tool	20/5/2022 9:32 AM	Application	1	0 KR	
;	*	🛃 Data Migration Tool	20/5/2022 9:32 AM	lcon			Open
	*	packager.dll	20/5/2022 9:32 AM	Application extens.	2	•	Run as administrator
							Troubleshoot compatibility
							Pin to Start

Note:

To ensure data consistency, before performing data migration, please confirm that no user will input data into ESDA v4.6.0 system.

4) Please read the notes of data migration and confirm all items in pre-migration checklist are done, and then click "Next".



5) Please read and confirm all data migration items, and then click "Next".



6) Please input the IP address of the ESDA v4.6.0 system server, if the ESDA v5.0.x is installed on the same server, please keep the IP address as "127.0.0.1", and then click "Start to migrate all data".

SDA Data Migration Teol (tram + 4.60 upgrade to 5.0a)	п	2
Please enter current ESDA IP address:		
127.0.0.1		
Remark: No changes are needed if apgraded ESDA is installed on the same server. (Default IP address: 127.0.0 1 or leadly	es.0	
Rout to m	igrate al data	

Note:

If an error message "Connect MYSSQL database fail, please check the IP and try again" is shown after clicked "Start to migrate all data", please check whether the IP address and the network configurations are correct (e.g. open the port in firewall or antivirus software), and perform the connection test according to section 5.1.

If ESDA v4.6.0 system and ESDA v5.0.x system are installed on different servers, please confirm the database and DNS settings have been updated according to section 5.2.

7) The data migration is in progress. <u>Please do NOT close the window until the data</u> <u>migration is completed.</u>



8) Data migration is completed.



9) Please review the result of the data migration. If the data migration is completed successfully, "Data migration success." will be shown.

	Dan
Migration Report:	2
Comparison of data volumes before and after data migration	
Class Level Data Migration : [Old records: 7 / New records: 7] [Pass]	
Class Data Migration : [Old records: 33 / New records: 33] [Pass]	
Survey Management Data Migration : [Old records: 71 / New records: 71] [Par	55]
Survey Management Mapping : [Old records: 9769 / New records: 9769] [Pass]	2
User Data Migration : [Old records: 4779 / New records: 4779] [Pass]	
User Mapping Data Migration : [Old records: 26816 / New records: 26816] [Pa	assī
KPM Data Migration : [Old records: 1080 / New records: 1080] [Pass]	
SHS Data Migration : [Old records: 159835 / New records: 159835] [Pass]	
APASO II Data Migration : [Old records: 122047 / New records: 122047] [Pass]	
Online survey Data Migration : [Old records: 4 / New records: 4] [Pass]	·
Online survey Mapping : [Old records: 17 / New records: 17] [Pass]	
Online survey Result : [Old records: 12960 / New records: 12960] [Pass]	

5.4 Ask for help

If you encountered any error during the data migration or the data migration failed. Please contact the Indicators Section of the EDB.

ESDA Data Migration T	ool (from v.4.6.0 upgra	de to 5.0.x)			12	- ;	U
elcome to use ESDA Da	a Migration Tool						
An error has oc	curred!						
Error moscago:	- 1						
Error In Migrate	CUC Data						
Error in Migrate	SHS Dala						
Solutions:							
1. Please dou	ble check Old	ESDA IP address	and firewall	setting.			
2. Click "Retry	" button and t	hen try again.					
3. In case of f	ailure again, pl	ease contact the	e ESDA techn	ical support a	and send th	ne dat	ta mi
About Support							
For enquiries or	the technical	problems of ESE	A you can o	ontact the In	dicators So	ction	ofth
ror enquines or	i the technical	problems of Est	JA, you can c	ontact the m	uicators se	cuon	ortin
Tel: 2892 6577 /	2892 6476 / 2	892 6544 / 2892	2 6507				
Fax: 2119 9074							
Email: indicator	@edb.gov.hk						
Note: For enqui	ries by email o	r fax, please stat	te the technic	al problem e	ncountered	l, con	tact p
-							
							Retry
							Retry
SDA Data Migration To	ol (from v.4.6.0 upgra	ide to 5.0.x)				_	Retry
ISDA Data Migration To	ol (from v.4.6.0 upgra	ide to 5.0.x)				_	Retry
SDA Data Migration To Data migration	ol (from v.4.6.0 upgra Finished.	ide to 5.0.x)				_	Retry
SDA Data Migration To Data migration	ol (from v.4.6.0 upgri Finished.	ide to 5.0.x)				_	Retry
ISDA Data Migration To Data migration I Migration Report	ol (from v.4.6.0 upgra Finished. t:	ide to 5.0.x)			_	_	Retry
SDA Data Migration To Data migration I Aigration Repor	ol (from v.4.6.0 upgr Finished. t:	ide to 5.0.x)				_	Retry
SDA Data Migration To Data migration I Migration Report	ol (from v.4.6.0 upgr Finished. t: lata volumes b	ide to 5.0.x) pefore and after	data migrat	- ion		_	Retry
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5.5 Frequently Asked Questions

5.5.1 Duplicated school year record is found

If an error message "Duplicate School Year Found" is shown during the data migration, it implies that more than one records exist in the same school year in ESDA v4.6.0 (as shown in the figures below). Therefore, the data migration will not proceed.

ESDA Data Migration	Tool (from v.4.6.0 upgrade to	5.0.x)		– 🗆 X
elcome to use ESDA [Data Migration Tool			
An error has o	ccurred!			
Error message Duplicate Scho	: ool Year Found:2020	-21		
Solutions:				
I. Please do	ouble check Old ESD/	A IP address and firewa	all setting.	
2. Click "Ret	try" button and then	try again.		
3. In case of	f <mark>failure again, please</mark>	e contact the ESDA tec	nnical support and sen	d the data migra
About Suppor	t:			
or enquiries of	on the technical prob	olems of ESDA, you car	contact the Indicator	s Section of the I
el· 2892 6577	/ 2892 6476 / 2892	6544 / 2892 6507		
av: 2110 007	1 2002 01107 2002	05117 2052 0501		
ax. 2119 501-	+			
mail: indicato	ors@eab.gov.nk			
Note: For enqu	uiries by email or fax	, please state the techr	lical problem encounte	ered, contact per
				/
				Retry
			en 12: 20 12 de mi =10	the bibling of the A
		P-platform	学仪驶族與问真」	以承证了个百
		In School Deve	lopment & Account	ability (ESDA)
stion				
系統	The second se	印本仲田		
	I具 用戶管理	MOENT	數據輸入 報表檢視器	數據提交
nwitch			數據輸入 報表檢視器	數據提交
#witch	2018-19 2010 20	KPM2015	教婦輸入 報表檢視器 APASO-II APASO W	数编提交
nwitch	I具 用戶管理 2018-19 2019-20 2020-21 2020-21	KPM2015 KPM2015	数撮輸入 報表檢視器 APASO-II APASO-II APASO-II	数据提交
	III 用戶管理 2018-19 2019-20 2020-21 2020-21	KPM2015 KPM2015 KPM2015 KPM2015	数编输入 经表核模器 APASO-II APASO-II APASO-II APASO-II	数据提交

School may follow the procedures below to delete all survey and KPM items of the duplicated school year, and perform the data migration again.

- 1) Login to the ESDA v4.6.0
- 2) Mouse over "System Tools" and then click "System Setting".
- 3) Click "School Year Setting"
- 4) Select the duplicated school year and then click "Save".

-	-					
0	2018-19	KPM2015	APASO-II	2		
0	2019-20	KPM2015	APASO-II	2		
0	2020-21	KPM2015	APASO-II	V		
۲	2020-21	KPM2015	APASO-II	53		
0	2021-22	KPM2015	APASO-II	2		
Delete All Currently Published SHS	Delete All Currently Published /	APASO Questionnaires Fix S	chool Year	Page: 1	/2 Save	Back

ool 調查

5) Repeat step 2 and step 3 to access "School Year Setting".

6) Use "Delete All Currently Published SHS" and "Delete All Currently Published APASO Questionnaires" functions to delete all survey and KPM data

0	2017-18	KPN2015	APASO-II	×	
0	2018-19	KPN2015	APASO-EI	~	
0	2019-20	KPM2015	APASO-LL	a	
0	2020-21	KPM2015	APASO-E	a	
	2020-21	KPM2015	APASO-II	22	
0	2021-22	KPN2015	APASO-II	S	
Delete All Currently Published SHS	Delete All Currently Published A	PASO Questionnaires Fit Sch	col Year	Page: 1 M	/2 Save Back
O a Delete All Currently Published SHS.	2020-21 2020-21 2021-22 Delete All Currently Published A	KPN2015 KPM2015 KPM2015 PASO Questionnaires Fiz Sch	APASO-TI APASO-TI APASO-TI APASO-TI	С В Рирк: 1 С	/2 % Sare

Note:

When deleting the duplicated school year record, please check carefully and avoid deleting non-duplicated data by mistake.

Chapter 6 Post-Migration Checking

6.1 Login Test

- 1) Login as an Administrator to the server of the ESDA v5.0.x system.
- 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 an Administrator to the ESDA v5.0.x system.

「學校發展與問責」 數據電 E-platform for School Development and Accountab ーーー	子平台 Welcome to ESDA
ESDA is used by schools to collect and manage self-realuation for the schools of collect and manage self-realuation of one-time Statementer Surveys of data collected and real publishing the restricted data relations of data collected and real publishing SSC and allow the promoting their collected.	Cogin Name Cogin Name
	Login .
Please note that when handling personal data, you should abi "Personal Data (Privacy) Regulations". For details, please visit the website of the Office of the Privacy for Personal Data at <u>https://www.ppd.org.hk/cindex.html</u>	ide by the Commissioner Note: The survey is conducted in an anonymous manner.

6.2 Class Level Checking

a Hone 👻	Class Level Management		Screen IC: grade-manag		
🌶 System Tools 🔗	Name Name	Status Normal @	Q Search		
🛔 User Management 👘 🗠	Pi Add × Delete				
O Class Level Management	Class Level Code	English Name	Chinese Name	Status	
O. Class Management	□ s1	51	51	Normal	A 50
O Group Management	D 52	52	52	Normal	A. 664
O User Management	S3	53	\$3	Normal	4, Edit
O Import User List	S4	54	54	Normal	g. Edit
O Export User List	55	55	55	Normal	Z 543
O Reart Passwords	56	\$6	56	Normal	2. 6dit

Please check the class level records ("User Management" > "Class Level Management").

6.3 Class Checking

· Home	~	Class Management					Screen ID:			
🔺 System Tools		Name	Status Normal (1)	V Q Searc	h					
LUSer Management		🖎 Add 🛛 × Delete	Add × Delete							
O Class Level Management		Class Code	English Name	Chinese Name	Class Level	Status				
O Class Management		□ 1A	14	1A	51	Normal	AL Edit			
O Group Management		□ 1B	18	18	51	Normal	2, Edit			
O User Management		□ 1C	IC	10	51	Normal	g. Edit			
O Import User List		1D	10	1D	51	Normal	2. Edit			
O Export User List		24	24	2A	\$2	Normal	g. Edit			
O Reset Passwords		28	28	28	52	Normal	d, Edit			
C Survey Management		□ 2C	2C	2C	52	Normal	2 Edit			

Please check the class records ("User Management" > "Class Management").

6.4 User Checking

Please check the user records ("User Management" > "User Management").

ESDA	e-platform for School Devel	e platform for School Development & Accountability (ESDA) The Selected School Yes					
「中心和品代表」目出来7平台 Ecieftoni for School Envelopment	. User Management / User	Management					Q III admin ,
and Accountability (ESDA)	System Overview Input School P	eformance Measurement Data ×	Deer Management +				
# Hans 👘	User Management					Screen (D:	user-menagement-002
🖌 System Tools 💦 👋	User Type Select	~ Group Select	t – User N	lame User Name	Status Normal @	~ Q	Search
🛔 Lion Management 💦 🔗	B Add X Delete						
O CassLevelManagement	User Type	Login Name	User Name(Chi)	User Name(Eng)	Group	Status	
O Caso Management	Administrator	admin	组织管理员	admin	Super Admin Group	Normal	2.641
O Group Management	Teacher	11	Teacher 4359	Teacher 4359	Teacher Group	Normal	2.641
O User Management	Teacher	12	Teacher 4360	Teacher 4360	Teacher Group	Normal	2.641
O Import User Lot	Teacher	13	Teacher 4361	Teacher 4361	Teacher Group	Normal	2.641
O Expert User Lat	Teacher	14	Teacher 4362	Teacher 4362	Teacher Group	Normal	£ 661
O Reset Passwords	Teacher	15	Teacher 4363	Teacher 4363	Teacher Group	Normal	£ 644

6.5 Survey checking

Please check the survey records ("Survey Management" > "Survey Management"). It is suggested that different school years should be selected for the checking.

ESDA	1. platform for School Development & Accountability (LSDA)						The Selected S	School Year :	2019-20	~
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and Accountability (ESDA)	Syste	m Overview System Upd	ete 🗵 🔹 🖲 Survey Ma	nepement +						
e Home	Surv	ey Management						Screen ID: sun	ey manage	ment 002
🖌 System Tools 👘 👻	✓ Questionnaire Type Select ✓ Mode Select ✓ Q Search									
▲ User Management Y		Export To School Perfo	mance Appraisal Pro	oject						
Q1 Survey Management		Questionnaire Type	Survey Title	Stort/End Date	Target Users	Mode	Response Rate			
O Publich Survey							100%	Pi Contant		
O Survey Management	Π.	Stakeholder Questionnaire	Questionnaire	2020-06-20 2020- 07-20	Teacher[Manual]	Offline	170/701	Offine Data	Import	
O Survey/Questionnaire								D Additional L	car -	
🕅 Data Import 💦 👻		Stakeholder Questionnaire	Parent Questionnaire	2020-06-20 - 2020- 07-20	Parent[Rancham]	Offine	100% (700/700)	B Content Di Offine Data	Import	

6.6 Report Checking

Please check the report data related to Key Performance Measures (KPM), Stakeholder Survey (SHS) and Assessment Program for Affective and Social Outcomes II (APASO II). It is suggested that same criteria should be used to generate reports in ESDA v4.6.0 and ESDA v5.0.x respectively for comparison and checking.

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ESDA	e-platform for School Dev	elopment & Accountability	(LSDA)						
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and Accountability (EDA)	System Overview Input School	Ferformance Measurement Data (User Nanagement ×	Class Management +	Class Level Management is	• SHS Report +			
🖷 Home 👘	SHS Report						Scrown (D: 5	in-report-	239
🖌 System Tools 👘 👻	Report Type	Overall Report							
🛎 User Management 🥂 👋	Stakeholder Survey	Teacher							
😢 Sarwy Management 🛛 👻	Year	2020-21							
07 Data Import					• Vi	ew ± Expert	± Export Whole School	Raw Data	
🖬 Report Management 💦 🗠									
O SHS Report									
O KPM Report									
O APNGO Report									
🗰 Data Submission 👘 😤									

6.7 Data Submission Checking

Please check the data submission records ("Data Submission" > "Preparation for Submission").

ESDA	E-platform for	F-platform for School Development & Accountability (FSDA)					d School Year :	2019-20	
「単位量形成常素」数量現子平台 E-platform for School Development	🕮 🛛 Data Submit	sion / Proparation for Submission					Text Size	🛛 III 🔺 admin-	
and Accounterality (EDA)	System Overview	Properation for Submission (+)							
🖷 Home 🔗	Preparation	for Submission					Streen (D)	dete-submission-001	
	Select the y	elect the year(s) of data to be submitted							
👗 User Management 🛛 👻					Schoo	d Year			
-			2014 15	2015 16	2016 17	2017 18	2018 19	2019 20	
😁 Survey Management 👘 🔧					Sta	tus			
9 Detalmost Y	1.	Attitude towards school	Completed	Completed	Completed	Completed	Completed	Completed	
	2.	Student Questionnaire	Completed	Completed	Completed	Completed	Completed	Completed	
Bi Report Management	э.	Parent Questionnaire	Completed	Completed	Completed	Completed	Completed	Completed	
🕒 Data Submission 💦 🗠	4.	leacher Questionnaire	Completed	Completed	Completed	Completed	Completed	Completed	
O Preparation for Submission	5.	Key Performance Measures (KPM)	Completed	Completed	Completed	Completed	Completed	Completed	
	6.	KPM Detail	Detail	Detail	Detail	Detail	Detail	Detail	
	7.	Last submission Date	2016-06-12	2017-04-18	2018-05-14	2019-06-18	2020-07-13	2020-08-13	
	A CLO Au	A CLO Authoritation of Direct Send to EDB & Send to EDB via other means							

Chapter 7 System Setting

7.1 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 • System Set	stem Overview System Setting ×									
System Setting	ystem Setting Screen ID: system-setting-002									
Deric Information A	duanced Surteen Cetting Surtee	e Version Is	formation							
basic information 24	avanced system setting — system	n veraion n	normation							
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						
Current School Year	2021-22		School Level	Primary School						
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

7.2 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.

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「学校發展與同責」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 🔷 🔿	C Reset • Upload
O System Setting	Uproad image of Zou X, Live Pixels of ZoU26 ratio Size [LPSyTPEIs/PINS File Format]

7.3 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".

Sys	System Overview									
Sch	School Year Setting School Year Setting									
١.										
	School Year Name	KPM Version	APASO Version	5H5 Version	Current School Year					
	2021-22	KPM2015	APASO II	SHS2015						
	2020/21	KPM2015	APASO II	SHS2015						
	2019-20	KPM2015	APASO-II	SHS2015						

7.4 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.

tem Setting		Screen ID: system-setting-
Basic Information	Advanced System Setting System Version Information	
Help Display Settin	s Show System Administ	
School Year Vers	Show all Support Information Show System Administrator Information only	
KPM Version:	Show Teacher in charge Information only	
APASO Version:	Show Education Bureau Support Information only	
SHS Version	 SH\$2015 	

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

System thereview			_	Change Password
110 Statest	110 Parent		1 000	Online Help Links Self-beening Vickes Clics
mare Q	mam@	mare O		Manuals And Guides
System Information		2022 June	Previous Month	Log Out

7.5 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.

ystem Overview 💼 System	Setting x				Course Vie autom antiVice. 001
stem Setting					screen vir storen serving vir
Basic Information	Advanced System	Setting	System Version Information	n -	
	Local Version	Inst	allation Time	Latest Version	Published Time
ESDA System Version	v5.1.2	202	2-05-20 15:39:16	v512	2022-05-23 17:22:34
Package Version	v1.0.220	202	2-05-26 09:00:02	v1.0.220	2022-05-25 18:14:53

7.6 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
 - 1) 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.

	ropences	EU/ M/ EVEL .	202 F 141	FINOTENTIES FIRE	5.00	
👕 server		7/10/2021	:26 PM	XML Document	8 KB	
🖹 tomcat-u	isers	28/4/20	Open		3 KB	
tomcat-users.xsd		28/4/20	Edit		3 KB	
🖭 web		28/4/20	Scan fe	or Viruses	3 KB	
	<connector< th=""><th></th><th></th><th></th><th></th></connector<>					
	protocol="org.ag	pache.coyo	te.ht	tp11.Http11Ni	oProtocol"	
	port="443" maxTh	reads="20	00"			
	scheme="https" a	secure="tr	ue" S	SLEnabled="tr	ue"	
	keystoreFile="co	onf/.keyst	ore"	keystorePass=	"changeit"	
	clientAuth="fals	se" sslPro	tocol	-"TLS" UKIEMC	OCHING="UTF-R	

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".



- File Action View Help 🗢 🔶 📷 🗟 🙆 📓 📷 🕨 🗷 🕩 🛞 Services (Local) Services (Local) Apache Tomcat 9.0 ESDATomcat Name Description Status Startup Type Log On As ActiveX Installer (AvInstSV) Provides Us... Manual Local Syste... Stop the service Restart the service Alloyn Router Service Routes Allo. Manual (Trig. Local Service Apache Torricat 9.0 ESD Start Apache2.2-Zend Automatic Local Syste.. Running Description: Apache Torncat 9.0.45 Server -Stop App Readiness Manual Local Syste... Application Identity Manual (Trig... Pause Local Service https://tomcat.apache.org/ Application Information Manual (Trig... Local Syste... Resur Application Layer Gateway Manual Local Service Restart Application Management Manual Local Syste... All Tasks AppX Deployment Service Manual Local Syste... Auto Time Zone Updater Disabled Local Service Refresh AVCTP service Manual (Trig... Local Service Properties AzureAttestService Running Automatic Local Syste... Seckground Intelligent Tre Manual Local Syste.. Background Tasks Infrastru Running Automatic Local Syste... Base Filtering Engine The Base Fil., Running Automatic Local Service Manual (Trig... Bluetooth Audio Gateway Service Service sup... Local Service TI DI .
- 10) Select "Apache Tomcat 9.0 ESDA" and then click "Restart".

- 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.
- 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"



3)

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



4)

Enter "yes" to confirm the input.

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]: CM Is CN-esda.schoola.edu, OU-esda, O=Testing Primary School A, L=Hong Kong, ST=China, C=CN correct? [no]: yes

5)

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

\Users\Administrator>"%JAVA_HOME%\bin\keytool" -genkey -alias tomcat -keyalg RSA -ext san=dns:esda.schoola.edu :\Users\Administrator> xJAVA_HUMEx\Din\Keytor inter 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 Permay School A [Unknown]: Testing Primary School A hat is the name of your City or Locality? [Unknown]: Hong Kong hat is the name of your State or Province? hat is the name of your state of Province. [Unknown]: China hat is the two-letter country code for this unit? [Unknown]: CN s CN=esda.schoola.edu, OU=esda, O=Testing Primary School A, L=Hong Kong, ST=China, C=CN correct? [no]: yes inter 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".

File Home Share	View			
- 🔿 🔹 🛧 📙 🖾 🛯	ida_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 #	🕋 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
Nictures 🛛 🖈	i context	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	tomcat-users	3/30/2021 11:29 AM	XML Document	3 KB
	tomcat-users.xsd	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).

<connec< th=""><th>tor</th></connec<>	tor
protocol="o	rg.apache.coyote.http11.Http11NioProtocol"
port="443"	maxThreads="200"
scheme="htt	ps" secure="true" <u>SSLEnabled="true"</u>
keystoreFil	e="conf/.keystore" keystorePass="changeit"
clientAuth=	"false" 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".

Services						
File Action View	Help					
🗢 🌩 🖬 📓	2 🕞 🛛 🖬 🕨 🗉 🕨					
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 (AvInstSV) 🍓 AllJoyn Router Service	Provides Us Routes Allo		Manual Manual (Trig	Local Syste Local Service
	Description: Apache Tomcat 9.0.45 Sarver - https://tomcat.apache.org/	Apache Torre at 9.0 ESDAT Apache 2.2 Zend Application Identity Application Information Application Information Application Layer Gateway Application Layer Gateway Bluetooth Audio Gateway Service	Start Stop Pause Restart All Tasks > Refresh Properties Help The Base Fil ice Service sup	Running Running Running Running	Automatic Automatic Manual (Ing Manual (Ing Manual Manual Disabled Manual (Ing Automatic Manual Automatic Manual (Ing	Local Syste Local Syste Local Syste Local Service Local Service Local Syste Local Syste Local Syste Local Service Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste

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.
- 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).

UT (C.g. 01-5).
<connector <="" port="80" protocol="HTTP/1.1" td=""></connector>
connectionTimeout="20000"
redirectPort="443" />
<connector< td=""></connector<>
protocol="org.apache.coyote.http11.Http11NioProtocol"
port <mark>="443</mark> " maxThreads="200"
scheme="https" secure="true" SSLEnabled="true"
<pre>keystoreFile="conf/.keystore" keystorePass="changeit"</pre>
<pre>clientAuth="false" sslProtocol="TLS" URIEncoding="UTF-8"/></pre>

3) Restart Apache Tomcat server

Services (Local)						
Apache Tomcat 9.0 ESDA	Name	Description	Status	Startup	Туре	Log ^
Stop the service	ActiveX Installer (AxInstSV) AllJoyn Router Service	Provides Us Routes AllJo		Disable Manual	d (Trig	Loc Loc
Restart the service	Apache Tomcat 9.0 ESDA	Apache To	Running	Automa	atic	Loc
	Apache2.2-Zend	Apache/2.2	Running	Au	Start	
Description:	🎑 App Readiness	Gets apps re		Mi	Stop	
https://tomcat.apache.org/	Application Identity	Determines		Mi	Pause	
https://tomeacapache.org/	Application Information	Facilitates t	Running	Mi	Resum	e
	🍓 Application Layer Gateway	Provides su		Mi	Pertert	_
	🆏 Application Management	Processes in		Mi	Kestart	
	🥋 AppX Deployment Service (Provides inf		Mi	All Tas	ks
	🖏 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".

😽 Certificate		Х
General Details Certification Path		
Show: <all></all>	~	
Field Subject Public key Public key parameters Subject Alternative Name Subject Key Identifier Thumbprint algorithm	Value esda.schoola.edu, esda, scho RSA (2048 Bits) 05 00 DNS Name=esda.schoola.edu 29 ce 69 16 19 91 45 7b 88 73 sha1 82 79 a5 ea f6 ee 4c 8b e1 44	
Ec	tit Properties Copy to File	

6) Click "Next".



7) Click "Next".

Ехр	ort 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)
	O Base-64 encoded X.509 (.CER)
	Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
	Include all certificates in the certification path if possible
	O 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
	Enable certificate privacy
	O Microsoft Serialized Certificate Store (.SST)

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

4	Cartificate Found Wood	×
* 3	Centricate Export Witana	
	File to Export Specify the name of the file you want to export	
-	Fle name:	-
	Browse (
	Not Cancel	

9) Click "Finish".

← 🖉 Certificate Export Wizard	×
Completing the Certificate Ex	port Wizard
You have successfully completed the Certificat	e Export wizard.
You have specified the following settings:	
File Name	C:\schoole.cer
Export Keys	No
Include all certificates in the certification pat	h No
File Format	DER Encoded Binary X. 509 (%, cer)
	Finish Cancel

10) Go to "Settings" of Google Chrome.



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

0	Settings	Q, Bearch settings	
*	You and Google	Your browser is managed by your organization	
Ê	Autofill	autory creck	
0	Privacy and security	Chrome can help keep you safe from data breaches, bad extensions, and more Gheck now	J
۴	Appearance	Privacy and accurity	
Q	Search engine	Clear broweing data	
	Default browser	 Clear history, cookies, cache, and more 	
Ċ	On startup	Gookies 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	班 Site Settings Controls what information sites can use and show (location, camera, pop-ups, and more)	
۲	About Chrome	Privacy for data 2	

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	
Google Advanced Protection Program Safeguards the personal Google Accounts of anyone at risk of targeted attacks	ß

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 AAA Certificate Ser AAA Certificate Ser AddTrust External Baltimore CyberTru Buypass Class 3 Ro Certum CA Certum Trusted Ne Class 3 Public Prima	Issued By 10.15.146.168 AAA Certificate Services Actalis Authentication AddTrust External CA Baltimore CyberTrust Buypass Class 3 Root Certum CA Certum Trusted Netw Class 3 Public Primary	Expiratio 24/8/2022 1/1/2029 22/9/2030 30/5/2020 13/5/2025 26/10/2040 11/6/2027 31/12/2029 2/8/2028	Friendl <none Sectigo Actalis Sectigo DigiCer Buypas Certum Certum VeriSig</none 	y Name > (AAA) Authentic (AddTrust) t Baltimor is Class 3 Trusted n Class 3	~
Import Export	Remove			Advan View Clos	iced

14) Click "Next".



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

e to Import Specify the file you want to import.
File name: C}\schoola.cer Browse
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)

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

Certificat	Store			
Cert	îcate stores are system areas	where certificates are kep	pt.	
Wind	ows can automatically select a ertificate.	certificate store, or you c	can specif	fy a location for
(Automatically select the certif	icate store based on the	type of c	ertificate
() Place all certificates in the foll	owing store		
	Certificate store:			
	Trusted Root Certification A	uthorities		Browse

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

Security 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".

PS C:\Windows\system32>	Test-NetConnection 10.15.7.91 -port 443
ComputerName RemoteAddress RemotePort InterfaceAlias SourceAddress PingSucceeded PingReplyDetails (RTT) TcpTestSucceeded	: 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.

		Carmot connect to the database, please refer to Appendix 4 of "instatiation and Uata Migration Guide for databate database."
「學校發展與問實」數據電子平台 F-platform for School Development and Accountability (FSDA) ーーー	Welcome to ESDA	CARGE IN TRANSPORTATION
Fight and the sense is the constant of the sense of the sense is the sense is the sense of the sense is the s	School Login Plat	tform @
Version : Lechnical Support Please note that when handling presenal data, you should abide by the "Presenal Data (Privacy) Crelman et. For datais, please visit the waterine of the Office of the Privacy Commissioner for Presenal Data at : https://www.pcpl.org/dk/bindex.html	Note: The survey is conducted in anonymeus manue.	un

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.

名稱	修改日期	類型	大小
Apache_Tomcat_9.0	2023/3/7 下午 02:37	檔案資料夾	
db-school-logs	2023/3/7 下午 02:37	檔案資料夾	
Gpenlogic_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 K
checklfReg.txt	2023/3/7 下午 02:37	文字文件	1 K
📄 init_edb.log	2023/3/7 下午 02:37	文字文件	34 KI
PPU_RestartTomcatService.bat	2023/2/9 下午 11:35	Windows 批次檔案	1 K
unins000.dat	2023/3/7 下午 02:13	DAT 檔案	374 Ki
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.

			1.1.1
C:\Windows\System32\cmd.exe	-	· 🗆	>
外现现个制程匠的路径。			
彩紙技不到指定的路径。 Anache Toncat 9.0 FSDA 時輪正在停止			
specific resources to below measured in the			

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 校 ● ● ○ □ ○ ○ ○ 				
🐘 服務 (本機)	Q,服務(本数) 停止服務			
	Apache Tomcat 9.0 ESDA	2 6	描述 扒張	啟動類型 登入身分
		ActiveX Installer (AxInstSV)	21-21	季動 Local Sys
	停止服務	Adobe Acrobat Update Service	Ado 軌行中	自動 Local Sys
	ACCURACE OF SE	SALJoyn Router Service	判罰	手動 (觸 Local Ser
		Stand Any Desk Service	Any 執行中	自動 Local Sys
	描述:	Apache Tomcat 9.0 EdbTomcat	Apa	予創 Local Ser
	Apache Torncat 9.0.65 Server -	Apache Tomcat 9.0 ESDA	Apa 快行中	自動 Local Sys
	https://toincacapacite.org/	Apache Tomcat 9.0 ESDATomcat	Apa	子動 Local Ser
		🖏 Apache2.2-Zend	Apa., 執行中	目前 Local Sys
		App Readiness	(第二)	李助 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".

📙 > 本種 > Windows (Ci) > esda_new > Apache_Tomcat_9.0 > webapps					
(C:)	^	名編 ^	備改日期	調査	大小
/WS.~BT		docs	2022/10/11 上午 11:04	楊禽寶科英	
15.~WS		esda-school	2022/10/12 下午 04:05	楊禽寬科夾	
1		examples	2022/10/11 上午 11:04	楊禽寬料來	
over		host-manager	2022/10/11 上午 11:04	福富資料來	
river		manager	2022/10/11 上午 11:04	福富資料來	
a la la		ROOT	2022/10/11 上午 11:04	福富資料來	
		school	2022/11/4 上午 10:50	福熙資料來	
		esda-school.war	2022/10/12 下午 04:06	WAR 檔案	113,348 KB
ρp		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".

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榴棗(F) 動作(A) ∜	â視(V) 説明(H) ❤			
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🧟 屈務 (本機)	Q) 服務(本権) 創設務			
	Apache Tomcat 9.0 ESDA		描述 狀態	愈動類型 登入寿分
	0.000	ActiveX Installer (Axinst5V)	針對	手動 Local Sys
<u>版印</u> 段版		San Adobe Acrobat Update Service	Ado 執行中	自創 Local Sys
		🚳 AlUoyn Router Service	\$193	手動 (楓 Local Ser
	描述:	🍓 AnyDesk Service	Any 執行中	目動 Local Sys
	Apache Torncat 9.0.65 Server -	🖏 Apache Tomcat 9.0 EdbTomcat	Apa	于動 Local Ser
	https://ibmcacapache.org/	🖏 Apache Tomcat 9.0 ESDA		日創 Local Sys
		Sector 200 ESDATomcat	Ape	手動 Local Ser
		Apache2.2-Zend	Apa 载行中	自動 Local Sys
		🍓 App Readiness	備去	手動 Local Sys
		Application Host Helper Service	海15 動行中	用数 Local Svs

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.

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 (A 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 Active public networks: Network 4 Notification state: Notify me when Windows Defender Firewall blocks a new app

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

🔗 Windows Defender Firewall with	h Advanced Security				-	\times
File Action View Help						
🗢 🔶 🙇 📷 🕞 📓 📷						
Windows Defender Firewall with	Inbound Rules			Actions		
Inbound Rules	Name	Group	Profile ^	Inbound Rules		•
Connection Security Rules	Firefox (C:\Program Files\Mozilla Firefox)		Private	🔯 New Rule		
> 🛃 Monitoring	Firefox (C:\Program Files\Mozilla Firefox)		Private	Y Filter by Profile		•
	Microsoft Lync		Public	Telber bu State		
	Microsoft Lync		Public	V Price by state		
	Microsoft Lync UcMapi		Public	Y Filter by Group		•
	Microsoft Lync UcMapi		Public	View		
	Microsoft Office Outlook		Public	Refresh		
	Spark Spark		Public	Nonesti .		
	Spark:		Public	Export List		
	@(Microsoft.DesktopAppInstaller_1.0.220	@(Microsoft.DesktopAppIns	Domai	👔 Help		
	@(Microsoft.Messaging_3.43.27001.0_x64	@(Microsoft.Messaging_3.4	All			
	@(Microsoft.MicrosoftOfficeHub_17.891	@{Microsoft.MicrosoftOffic	Domai			

- 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	n 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	This includes connections that are protected with IPsec as well as those are not.			
Profile	\bigcirc Allow the connection if it is secure			
 Name 	A Back Next > Cancel			

💣 New Inbound Rule Wiza	rd >
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	ame		
Sp	ecify the name and description (of this rule.	
S	eps:		
٠	Rule Type		
٠	Protocol and Ports		
٠	Action		
٠	Profile	Name:	
٠	Name	ESDA	
		Description (optional):	
		< Back Finish Cancel	

-- End --