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# IMPLEMENTATION OF PAPERLESS PROCEDURES IN SRI LANKA CUSTOMS

### DIGITAL CERTIFICATES INSTALLATION AND USER GUIDE

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Written <b>by</b>	Adolfo Isnado Donaire
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### 1. Introduction

As part of the efforts moving towards a paperless environment in Sri Lanka Customs, UNCTAD has developed a new functionality in Asycuda World system to digitally sign the Customs Declarations in the import and export processes.

As any other implementation performed by UNCTAD, this one is oriented to facilitate and speed up the import and export delay suppressing the cusdec printouts and improving one of the main security features, which is the user authentication.

### 2. Purpose

This manual will show you how to setup your digital certificate in Asycuda World system.

This guide was written to be as clear as possible and provide you the necessary details to get familiar with this new feature.

### 3. Entities using the new feature

For the moment, there is only one group of users who will use this feature: the Customs Brokers.

## 4. Requirements for any user intending to use digital certificates

- Have an user account in Asycuda World and have assigned the business unit for brokers,
- Purchase from Lanka Clear Company a user digital certificate.
- Have installed in your computer the drivers of usb dongle, as well as the respective Authentication Client software,
- Make sure you have available the passwords for:
  - o Dongle administrator user,
  - o Your Private Key.

The dongle comes with default administrator password. It is strongly recommended to change it.

### 5. Preparing the public key from the usb dongle

In order to export the public key of your user certificate, follow the steps below:

a) Open Trust\_Key on your computer token user or as administrator (Fig. 1)

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11 items				::: <b>E</b>

Figure 1: Connecting Trust\_Key

b) Install **Trust Key** on your computer. (Fig. 2)

tall TRUST KEY tool			×
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You will install the program. Click 'Install' to continue ,otherwise die	k 'Cancel' to exit.		
Figure 2: Insta	ling Trust Key	itall (	Cancel
Figure 2: Insta	ling Trust Key		an

c) After the installation, find the TRUSTKEYP11\_ND\_v34.dll file on C:\Windows\System32 (Fig 3),



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> 1	'his PC → Local Disk (C:) → Windows → Sy	stem32			~	ō	Search System32
	Name	✓ Date modified	Туре	Size			
	📧 tree.com	2019-12-07 2:39 PM	MS-DOS Applicati	21 KB			
*	🚳 trie.dll	2021-06-23 6:30 PM	Application exten	174 KB			
*	🚳 trkwks.dll	2019-12-07 2:38 PM	Application exten	112 KB			
*	TrustedSignalCredProv.dll	2021-06-23 6:31 PM	Application exten	113 KB			
*	TRUSTKEYP11_ND_v34.dll	2018-07-09 11:58 AM	Application exten	75 KB			
	🖄 TRUSTKSP.dll	2018-07-09 11:58 AM	Application exten	205 KB			
	🗟 tsbyuv.dll	2019-12-07 2:39 PM	Application exten	17 KB			
	🗟 tscfgwmi.dll	2021-06-23 6:33 PM	Application exten	276 KB			
	📧 tscon.exe	2019-12-07 3:23 PM	Application	24 KB			
·	📧 tsdiscon.exe	2019-12-07 3:23 PM	Application	24 KB			
	TSErrRedir.dll	2021-06-23 6:33 PM	Application exten	12 KB			
	🗟 tsf3gip.dll	2021-06-23 6:31 PM	Application exten	1,333 KB			
	🗟 tsgqec.dll	2021-06-23 6:33 PM	Application exten	70 KB			
Trust I	📧 tskill.exe	2019-12-07 3:23 PM	Application	25 KB			
induct_i	🗟 tsmf.dll	2021-06-23 6:33 PM	Application exten	405 KB			
	🗟 TSpkg.dll	2021-06-23 6:31 PM	Application exten	150 KB			
	🚳 tspubwmi.dll	2019-12-07 3:23 PM	Application exten	228 KB			
	TSSessionUX.dll	2021-06-23 6:34 PM	Application exten	87 KB			
	ssrvlic.dll	2021-06-23 6:30 PM	Application exten	197 KB			

Figure 3: Locating the TRUSTKEYP11\_ND\_v34.dll file

d) Copy the file into "Documents" Folder (Fig. 4).

≝ > ⊺	This PC > Documents			
	Name	Date modified	Туре	Size
ns *	TRUSTKEYP11_ND_v34.dll	2018-07-09 11:58 AM	Application exten	75 KB
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SY				
-) Truct				
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Figure 4: Copying the file into 'Documents' Folder on your computer.

### 6. Attaching the public key to Asycuda World user profile

Once you have the public key in a separate file in your local computer, you need to attach it to your user profile in Asycuda World, as follows:



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a) Access to my profile option in Asycuda World,



- Figure 5: Adding user digital certificate to user profile in Asycuda World
  - b) Import the public key and attach to user profile, click on "Import a certificate from a SmartCard" first and then browse the dll file by clicking on "Select SmartCrd library path" button (Fig. 6),

Ndd certificate		;
Choose a certificate source Select and set certificates to be used The available options are: Select a certificate from a lo Load a certificate from a sm	for document sign al file (keystore); art card.	ing.
Import a certificate from a KeyStore		Import a certificate from a SmartCard
PKCS#11 library file:		2

Figure 6: Selecting the public key file from your computer

- c) Verify the data of your public key certificate and click on the button finish (Fig. 7),
- d) Click on the button OK to finalize the operation.



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→ Add certificate ×
Certificate Hierarchy  Certificate Authority  Certificate Authority  W_M_T_Mahauipatha
Certificate Fields
W_M_T_Mahaujaatha Certificate Certificate Certificate Signature Algorithm Certificate Signature Algorithm Certificate Signature Algorithm Certificate Signature Algorithm Control Second Secon
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Figure 7: Verifying the public key before attachment

### 7. Digitally signing Customs declarations

As soon as you attach your certificate (containing your public key) to your user profile in Asycuda World, you have to wait until ICT Division approves your certificate. An approved certificate looks like the one in figure 8. Now you are ready to submit digitally signed customs declarations.

When you have your cusdec ready for submission, follow the steps below to sign:

a) Before assessing a cusdec, you have to provide the usb dongle library file. For that, select the option "Import a certificate from a SmartCard". Locate the .dll library file according to your usb dongle type.(fig. 9),



Figure 8: Approved digital certificate by ICT



Figure 9: Providing the dll library to access certificates in usb dongle

- b) Select the user certificate from your usb dongle and provide the password of your private key to sign the cusdec (Fig. 10),
- c) Once a cusdec is digitally signed, you can verify it using one of two ways:

c.1) Select the declaration using the finder, right-click and display the history (fig. 11),

c.2) Open the cusdec in View mode, click on the button to show up the digital signature details (Fig. 12).

Please choose a certif	ficate from	the presented SmartCard tok	ens:	
SLCustomsTestToke		4540000000		-
Details of the selected	Passwor	rd for 'SLCustomsTestToken'	X	
Issued to: UID=63192 CN=W_M_T_Mahaulp Not Before: Thu, 23 M Not After: Fri, 23 Mar 2 Serial # 1553			.Ik ste	oms, C=LK
Issued by: CN=Lanka Type: X.509	sign Certifi	cate Autnority, OU=LankaSign,	U=LankaCiear (	Pvt) Limited

Figure 10: Providing your private key details to sign the cusdec



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from:	n/a					
by:	n/a					
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version	status	owner				
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Version#	Date	Status	Transaction	Owner	Who	Signed
1/	10/18 11:01 AM	Assessed	Validate and assess	4406422682525-1	broker08	yes
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Detailed Declaration - View [2018]									
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Figure 12: Verifying a digitally signed cusdec in View mode