LOCAL CERTIFICATION AUTHORITY CREATOR Model: LCA-DL30

USERS MANUAL

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1. INTRODUCTION

DL30-G version 2.0 or later supports HTTPS for enhancing secure communication. This users manual describes how to create certificates which are indispensable when using HTTPS.

2. WEB SERVER CERTIFICATE

This section describes the purpose of web server certificates and how they are used.

For further understanding, refer to relevant web sites or tutorial documents for terminologies such as 'route CA', 'intermediate CA', 'electronic signature', 'SSL/TLS', etc.

Below is the usual procedure followed when opening a web site using HTTPS.

- (1) The web site operator creates a web server certificate and sends the certificate to a Certification Authority to be signed.
- (2) The Certification Authority verifies the identity of the web site operator and the web server, signs the web server certificate and returns the certificate to the web site operator.
- (3) The web site operator installs the certificate on the web server.



As a web site user accesses the web server via a browser using HTTPS, the web server certificate signed by the Certification Authority is downloaded ((4) in the above figure).

In order to verify the signature, a certificate for the Certification Authority who has singed the web server certificate needs to be confirmed.

For prompt verification, major Certification Authority certificates are pre-installed in browsers.

If verified, the site user can assure that the web site the user is accessing is not a spoofed web site.

The web server certificate also allows encrypted communication between the web server and the user, preventing stealing and alteration of communication data.

As described above, communication security is ensured by HTTPS.

3. LOCAL CERTIFICATION AUTHORITY.

When accessing a general web site where a large number of unspecified users are expected, it is inevitable to verify the identity of the web server by a third party Certification Authority. However, as far as simple web servers built in industrial equipment are concerned, one is the web server operator and its user at the same time in many cases. That is, the operator of the web server accesses its own web site as a user.

In such a case, it will not be a problem if verification of identity by a third party Certification Authority is omitted.

The Local Certification Authority Creator (model: LCA-DL30) facilitates simplification of such verification.

The software program can be downloaded from our web site.

Below is the procedure followed using Local Certification Authority Creator when the user and Certification Authority are identical.

- (1) A Certification Authority is created in your PC at an initial startup of LCA-DL30 after it has been installed.
- (2) A web server certificate is created for each device, signed automatically, and transferred to the device.
- (3) The Local Certification Authority certificate is manually installed in the browser/OS of the terminal of the user.



What is different from normal HTTPS connection is that the certificate for the Local Certification Authority of LCA-DL30 is not pre-installed in browsers and needs to be manually installed ((3) in the above figure).

With LCA-DL30, verification of identity of the web server required when using HTTPS can be simplified. LCA-DL30 can also be used in an LAN environment, allowing HTTPS in a local network.

NOTES

- Files generated by LCA-DL30 contain data which is important in terms of security. Handle such data with utmost care.
- The HTTPS server of DL30-G and LCA-DL30 CANNOT guarantee complete data security. Handling of data is at your own risk and responsibilities.

4.1 System requirements

SYSTEM REQUIREMENTS

HARDWARE	REQUIREMENT
PC	PC/AT compatible
OS Windows 10 (32-bit / 64-bit), Windows 11 (64-bit)	
Other than OS	DOT.NET Framework 4 or later
CPU	2 GB or more
Hard disk area	60 MB or more (Separately secure hard disk space for user data)
Display resolution	XGA (1024 x 768) or more
Language	English / Japanese

4.2 Installation

The software program can be downloaded from our web site.

Download the compressed file on your PC, and decompress the file that contains 'Setup.exe'. Execute 'Setup.exe' and install the program by following the instructions on the installer.

A security warning message may appear during the installation.

Confirm that the compressed files are ones downloaded from our HTTPS server before continuing the installation.

4.3 Creating a Local Certification Authority

The Local Certification Authority is automatically created at an initial startup of LCA-DL30 after installation.

- (1) The [Organization Name] dialog as shown in Figure 4.1 will appear at an initial startup of LCA-DL30. *1 Enter the name of your company, organization, etc., to represent the Local Certification Authority and click [OK].
- (2) The confirmation dialog as shown in Figure 4.2 will appear. Click [OK].

O: Organization Name	×	LCA	-DL30	×
M-SYSTEM Enter an organization name. e.g. M-SYSTEM CO.,LTD.			O=M-SYSTEM CN=LCA-DL30 Are you sure to create a Certification Authority with the above parameters?	
			OK Cancel	
	ОК			

Figure 4.1 Organization Name entry screen

Figure 4.2 Confirmation dialog

*1 The [Organization Name] dialog only appears at the initial startup of LCA-DL30.

PARAMETER ITEM	DESCRIPTION
Organization Name	Enter the company/organization name as the name of the Local Certification Authority of LCA-DL30. Available characters First character : A-Z, a-z, " _ (underline)" Second and after: A-Z, a-z, 0-9, " _ (underline)", " , (comma)", " . (period)", " - (hyphen)", " (blank)"

(3) When the Local Certification Authority has been created, the LCA-DL30 main screen as shown below appears.

Confirm that the entered name is displayed for "O" in the [Certification Authority] frame.

🔮 LCA-DL30					- 🗆	×
New CA(<u>N</u>)	Import(<u>I</u>) Lang	uage(<u>L)</u> Version	(⊻)			
Certifica	tion Autho	rity	Certifica	te		
🖾 Show	CA File(<u>S</u>)		🗄 🎦 New C	ertificate(<u>C</u>)		
Name O CN	Value M-SYSTEM LCA-DL30	*2 *3	CN	Domain	IP Address	

Figure 4.3 Main Screen

- *2. The organization name cannot be changed once the Local Certification Authority has been created. To change the organization name, rebuild the Certification Authority with referring to "4.7 Rebuilding Local Certification Authority" on page 24.
- *3. "LCA-DL30" is for display only and cannot be edited or deleted.

4.4 Creating and Transferring Web Server Certificate

In order to create a Web server certificate for DL30-G and transfer the certificate to the device, follow the procedure below.

(1) Click [New Certificate(C)] on the main screen to display the [Create Certificate] window.

(2) Click [Add] and enter the domain name or IP address of the DL30-G When two or more DL30-G units exist, add the domain name or IP address for each unit or simply register one unit per certificate by repeating from step (1) for another unit, according to need. Click [OK].

Create Certificate	2
Domain Name m-system.ddns.jp	IP Address 192.168.0.1
Add Edit Del Enter DNS of the unit. e.g. www.m-system.co.jp	Add Edit Del Enter IP Address of the unit. (Loopback address is added automatically.) e.g. 192.168.0.1
CN DL30-G Enter the unit name. e.g. DL30-G	OK Cancel

4.4 [Create Certificate] window

PARAMETER ITEM	DESCRIPTION
Domain Name	Enter the domain name of DL30-G for accessing the device via the internet using alphanu- meric characters (Japanese domain name not allowed). Up to 8 domain names can be registered.
IP Address	Enter the IP address of DL30-G for accessing the device via the internet or LAN using alpha- numeric characters (Not compatible with IPv6). Up to 8 IP addresses can be registered.
CN	Available characters First character : A-Z, a-z, " _ (underline)" Second and after: A-Z, a-z, 0-9, " _ (underline)", " , (comma)", " . (period)", " - (hyphen)", " (blank)"

(3) As the confirmation dialog appears, click [Yes] to display the [Transfer] window.

	Network			O USB	
IP Address	192.168.0.1	~	Port		
Port (Default: 30559)	30341	▲ ▼			
Account					
User					
Password					

Figure 4.5 [Transfer] window

(4) In the same manner as the connection setting on DL30GCFG, select the connection method between [Network] and [USB].

Enter the IP Address or Domain Name, and the user name and password of the DL30-G to connect. Click [OK] to start the transfer of the Certificate to the device.

(5) On the main screen, the certificate which has been just created is displayed on the [Certificate] frame.

Sector LCA-DL3					×
New CA(<u>N</u>)	Import() Version(V)				
Certifica	ition Authority	Certific	ate		
🗄 🖾 Show	CA File(<u>S</u>)	i 🎦 New	Certificate(<u>C</u>)		
Name O CN	Value M-SYSTEM LCA-DL30	CN DL30-G	Domain m–system.ddns.jp	IP Address 192.168.0.1	

Figure 4.6 List of Certificates

(6) When two or more DL30-G units exist, right-click on the relevant certificate on the main screen to display the submenu, and select [Create / Transfer] to display the [Transfer] window. Follow the step (4).

Even if the LCA-DL30 is restarted, the registered Certification Authority and Certificates will remain on the list unless they are deleted.

To delete a Certificate, right-click on the Certificate to display the submenu and select [Delete].

NOTES

- DO NOT access the DL30-G web server when transferring the certificate to the device.
- A security warning will appear when accessing over HTTPS if the Domain Name or IP Address is wrong. Please pay close attention when entering the Domain Name or IP Address.
- The Web server certificate expires in 730 days (approx. 2 years) after it has been transferred. Be sure to retransfer the certificate regularly before expiration date as the browser cannot connect to the DL30-G device via HTTPS protocol once it has expired.

4.5 Installing Local Certification Authority Certificate

4.5.1 Local Certification Authority Certificate

The certificate for the Local Certification Authority created on "4.3 Creating a Local Certification Authority" on page 7 needs to be installed on the terminal which connects to the DL30-G web server.

This procedure must be performed on every terminal to connect to the device which has certificate signed by this Local Certification Authority.

If not, a security warning will appear on the browser when the DL30-G is accessed over HTTPS without the certificate.

The installation method varies depending on the software environment of the terminal.

4.5.2 Installing via LCA-DL30

Windows (Chrome, Edge)

(1) Click [Show CA File(S)] on the main screen to display the [Certificate] window. Click [Install Certificate..] to start the [Certificate Import Wizard].

👷 Certificate	×
General Details Certification Path	
Certificate Information	_
This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.	
Issued to: 100-DI 30	-
Issued by: LCA-DL30	
Valid from 9/18/2019 to 9/10/2049	
Install Certificate Issuer Statement	
OK	

Figure 4.7 [Certificate] window when [General] tab is selected

(2) As the [Welcome to the Certificate Import Wizard] screen of the Wizard appears, select [Current User] as the store location, and click [Next].

	×
🗧 😓 Certificate Import Wizard	
Welcome to the Certificate Import Wizard	
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.	
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	
Store Location O Local Machine	
To continue, dick Next.	
<u>N</u> ext Cance	el

Figure 4.8 Initial View of [Certificate Import Wizard]

(3) As the [Certificate Store] screen of the Wizard appears, select [Place all certificates in the following store], and click [Browse].

	×
🔶 😓 Certificate Import Wizard	
Certificate Store	
Certificate stores are system areas where certificates are kept.	
Windows can automatically select a certificate store, or you can specify a location for the certificate.	
O Automatically select the certificate store based on the type of certificate	
Place all certificates in the following store	
Certificate store:	
B <u>r</u> owse	
<u>N</u> ext Canc	21

Figure 4.9 [Certificate Store] screen

(4) As the [Select Certificate Store] dialog appears, select the [Trusted Root Certification Authorities] folder, and click [OK].

Select Certificate Store	×
Select the certificate store you want to use.	
Trusted Root Certification Authorities	î
Enterprise Trust Intermediate Certification Authorities	
 Intrusted Certificates 	×
Show physical stores	
OK Cancel	

Figure 4.10 [Select Certificate Store] dialog

(5) A Windows security warning may appear while the wizard is running. Read the warning message and determine whether there are any problems as the User (yourself) is the Route Certification Authority on the LCA-DL30, and click [OK].

Windows (Firefox)

(1) Click [Show CA File(S)] on the main screen to display the [Certificate] window. Click the [Details] tab, then click [Copy to File...].

💀 Certificate		×
General Details Certification Path		
Show: <a>All>	~	
Field	Value	^
Version Serial number Signature algorithm Signature hash algorithm Signature hash algorithm Signature hash algorithm Signature hash algorithm Signature hash algorithm Signature hash algorithm	V3 00fb9dc7f8e970683b sha256RSA sha256 LCA-DL30, M-SYSTEM, Osaka, JP Wednesday, September 18, 2 Friday, September 10, 2049 4 I CA-DL30, M-SYSTEM, Osaka, 1P	*
Ēd	it Properties	
	ОК	

Figure 4.11 [Certificate] window when [Details] tab is selected

(2) As the [Export File Format] screen of the Wizard appears, select [Base-64 encoded X.509 (.CER)] as the format, and click [Next].

Export File Format Certificates can be exported in a variety of file formats.	
Select the format you want to use:	
DER encoded binary X.509 (.CER) Base-64 encoded X.509 (.CER)	
Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)	
Personal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible	
Delete the private key if the export is successful	
Enable certificate privacy	
Microsoft Serialized Certificate Store (.SST)	
Next	Cancel

Figure 4.12 [Export File Format] screen of [Certificate Export Wizard]

(3) Enter the File name, click [Browse] to specify the save location (ex. desktop), and save. Close the [Certificate Export Wizard].

2	Cartificate Evport Wittard	×
	File to Export Specify the name of the file you want to export	
	Eile name:	
	Browse	
	<u>N</u> ext Cancel	

Figure 4.13 [File to Export] screen of [Certificate Export Wizard]

(4) Start the Firefox browser.

Right-click on the menu at the right top and select [Options] to open the [Options] tab.

🌖 New Tab	X M-System - Total Components X +			—		×
(←) → C @	0 🛈 🔒 https://www.m-system.co.jp		☆	lii\	•	≡
		:	C Sign in to Sync			C
MSYST	EM	e l	Content Blocking		St	andard Ctrl+N
Total Comp	onents Supplier for PA / FA / BA	e e	New Private Winde Restore Previous S	ow ession	Ctrl+S	ihift+P
Signal Conditioners Paperless Recordin	Lightning Surge Protectors, Remote I/O, 5 System, Indicators, Electric Actuators		Zoom —	1009	6 +	L ²
	The Contract of the second		Edit	ጽ	ъ	Ê
			Library			>
Select Your Lan	guage		 Logins and Passwo Add.ons 	ords	Chell S	hife. A
▲ 日本語		-	Options		Cui+2	
		2	Customize			
English			Open File			Ctrl+0
中文(简体)			Save Page As			Ctrl+S
하국어		•	Print			
		(λ Find in This Page			Ctrl+F
			More			>
Copyright © 2010-2019	M-System.Co., td. All rights reserved.	it =t : /	Web Developer			>
copyright o zoro zoro			🕐 Help			,
		(ל Exit		Ctrl+S	hift+Q

Figure 4.14 Firefox browser

(5) Click [Privacy & Security] to display 'Security' options.

	۷	New Tab	×	<u>m</u>	M-System - Total Components 🗙	🔆 Options	×	+		—		×
$\langle \boldsymbol{\leftarrow} \rangle$	\rightarrow	C' û	😢 Fin	efox	about:preferences			☆	li	\ 🗉) 🔮	≡
								₽ Find	l in Options			^
	☆	General		Ge	eneral							
	۵	Home		Sta	rtup							
	۹	Search			Restore previous session Warn you when quitting t	he browser						
		Privacy & Security		 Image: A start of the start of	Always check if Firefox is you	r default browser						
	C	Sync			🙁 Firefox is not your defa	ult browser			Make <u>D</u> efa	ult		
				Tab)S							
					Ctrl+Tab cycles through tabs i	in recently used order						
				✓	Open links in tabs instead of	ne <u>w</u> windows						
					When you open a link in a new	w tab, switch to it immediate	ly					
					Show tab previews in the Win	idows tas <u>k</u> bar						
	3	Extensions & Themes										
	?	Firefox Support										
				La	nguage and Appearar	nce						*

Figure 4.15 Firefox [Options] screen

(6) Click [View Certificates...] to display the [Certificate Manager] window.



Figure 4.16 Firefox [Privacy & Security] screen

(7) Click [Import] to display the File Selector window.

🌖 New Tab	🗙 🛛 M-System - Total Components 🗙	✿ Options ×	+	- 🗆 ×
← → ♂ ଢ	Sirefox about:preferences#privacy		☆	III\ 🗊 🔹 ≡
				^
	Certificate	Manager	×	
🔆 General	Your Certificates People Server	s Authorities	_	
Home				
O Gauge	You have certificates on file that identify these	certificate authorities		
Search	Certificate Name	Security Device	E.	
Privacy & S	← AC Camerfirma S.A.		^	
	Chambers of Commerce Root - 2008	Builtin Object Token	_	
🕄 Sync	Global Chambersign Root - 2008	Builtin Object Token		
	✓ AC Camerfirma SA CIF A82743287			
	Camerfirma Chambers of Commerce Ro	ot Builtin Object Token		
	Camerfirma Global Chambersign Root	Builtin Object Token		
	~ ACCV			
	ACCVRAIZ1	Builtin Object Token		
	✓ Actalis S.p.A./03358520967		~	
	⊻iew <u>E</u> dit Trust Import	Export <u>D</u> elete or Distrust	<u>C</u>	ertificates
🔹 Extensions &	The		urit	y <u>D</u> evices
⑦ Firefox Support	ort		OK	
			÷.	Y

Figure 4.17 Firefox [Certificate Manager] window

(8) Locate the file (.CER) saved in (3), and click [Open] to display the [Downloading Certificate] dialog.

ຢ Select File containing	g CA certificate(s) to import		×
← → ~ ↑ 🗖 >	This PC > Desktop >	✓ ♂ Search Desktop	
Organize 🔻 New f	folder	III 🗸 🚺	
 ✓ Quick access □ Desktop ∅ Documents ∅ Documents ∅ Pictures ∅ Downloads ∅ sekkei ∅ capture □ Project_1 □ Project_1 □ Project_1 □ RI説用プロジェクト 	 Name LCA-DL30 PC_WinCE7 R80CFG remotedisplay_v2 remotedisplay_v3 cacrt 	Date modifiedType9/18/2019 4:43 PMFile folder6/28/2017 1:07 PMFile folder4/3/2018 1:14 PMFile folder7/7/2017 8:54 AMFile folder7/7/2017 10:43 AMFile folder9/18/2019 5:02 PMSecurity Certifical	te
> 🝊 OneDrive	v <		>
Fi	ile <u>n</u> ame:	✓ Certificate Files ✓ Open Cancel]

Figure 4.18 File Selector window

(9) Check [Trust this CA to identify websites] and click [OK] to register the certificate for the Local Certification Authority of LCA-DL30 on the Firefox browser.

Downloading Certificate	×
You have been asked to trust a new Certificate Authority (CA).	
Do you want to trust "LCA-DL30" for the following purposes?	
☐ Trust this CA to identify websites.	
Trust this CA to identify email users.	
Before trusting this CA for any purpose, you should examine its certificate and its policy and procedures (if available).	
View Examine CA certificate	
OK Cancel	

Figure 4.19 Firefox [Downloading Certificate] dialog

(10) Close the Firefox browser.

4.5.3 Using Certification Authority Certificate

Windows (Chrome, Edge)

- (1) Click [Show CA File(S)] on the main screen to display the [Certificate] window. Click [Install Certificate..] to start the [Certificate Import Wizard].
- (2) Follow the same procedure as in "Windows (Chrome, Edge)" on page 10.

Windows (Firefox)

(1) Follow the same procedure from step (4) of "Windows (Firefox)" on page 12.

4.5.4 Installing from DL30-G

First, set the web server protocol of the DL30-G as HTTPS and follow the procedure below.

Windows (Chrome, Edge, Firefox)

To install the certificate created on LCA-DL30 and transferred to the DL30-G, connect to the device over HTTPS to download the file.

- (1) Enter "http://<DL30G-IP Address>" to download the Certification Authority certificate file (cacert.crt).
- (2) After the file has been downloaded, follow the same procedure as in "4.5.3 Using Certification Authority Certificate" on page 17.

iOS (Safari)

To install the certificate created on LCA-DL30 and transferred to the DL30-G, connect to the device over HTTPS to download the file.

(1) Enter "http://<DL30G-IP Address>" to display the dialog below.



Figure 4.20 iOS Download confirmation dialog

(2) Click [Allow] to download the file.

(3) After the file has been downloaded, go back to the Home screen, and tap the gear icon for Settings. Click [Profile Downloaded] to display the downloaded Profile.

17:27 Wed Sep 18	Wi-Fi	🗢 Not Charging 🔳
Settings	•••••	
Q Search	Wi-Fi	
	✓ aterm-8c075f-g	₽ ≎ (i)
IA Ipad A1474	CHOOSE A NETWORK	
	044665954724	
2ファクタ認証を有効にする 1 >	aterm-392baf-aw	₽ \$ (i)
	aterm-8c075f-gw	₽ \$ (j)
iPadの設定を完了する 1 >	aterm-codesys-a	≗ হ (i)
Profile Downloaded >	aterm-d2e775-a	₽ ≎ (j
	BUFFALO-25F3C0	🔒 🗢 🚺
Airplane Mode	Extender-A-DB68	≙
ᅙ Wi-Fi aterm-8c075f-g	Extender-G-DB68	₽ ╤ (j)
Bluetooth On	GENEDEV-1	₽ ङ (j)
	IB10W1-AP181	≜ 奈 (j)
O Notifications	msystem2-musen	≜
Sounds	rap6-ap111	₽ ╤ (j)
C Do Not Disturb	RGP6-N-R-13-14	
Screen Time	RGP6-N-R-13-15	
🚫 General	RGP6-NJ-BR2-16	
Control Center	s-syoltd	
AA Display & Brightness	SCADALINX-INET	
Mollpoper	test-ssid-rgp	ê ╤ (i)

Figure 4.21 iOS Settings Screen

(4) Tap the downloaded profile to display the [Install Profile] window.
 Tap [Install] at the right top of the window to start the installation of the profile on the terminal.
 If a security warning appears during the installation, tap [Install] again to continue the installation.

17:28 Wed Sep 18			ę	• Not Charging
		〈 General	Profiles	
Setting	IS			
O Search	•	DOWNLOADED PROFIL	E	
		LCA-DL30		
	Cancel	Install Profile	Install	
IA Ipa App		instant tonic	instan	
				>
2ノアクタ認証		0		>
iPadの設定を	Signed by LCA-DL30			
Profile Downl	Not Verified			
	More Details		>	
⊱ Airplan	Wore Details		,	
🛜 Wi-Fi	Re	emove Downloaded Profile		
* Bluetoc				
Notifica				
Sounds				
C Do Not				
Screen				
🔅 General				
Control (Center			
AA Display &	& Brightness			
A Wallpape	or			

Figure 4.22 iOS [Install Profile] window

(5) When the installation has been completed, tap [Settings] > [General] > [About] > [Certificate Trust Settings] to open the [Certificate Trust Settings] screen. Check [ENABLE FULL TRUST FOR ROOT CERTIFICATES] to enable trust for the downloaded certificate.

Android (Chrome)

(1) Download the Certification Authority certificate following the same procedure for iOS and open the downloaded certificate.



Figure 4.23 Android cacert.crt opening screen

(2) As the Certificate Installer starts, enter the certificate name and click [OK] to register the certificate.

╗┆┙┝ݤҋ) 注 15:46 PM
Certificate Insta	aller	
	Name the certificate	
	Certificate name	
	Credential use	
	Wi-Fi	
	The issuer of this certificate may inspect all traffic to and from your device.	
	The package contains: CA certificate	
	CANCEL OK	

Figure 4.24 Android Certificate Installer

4.6 Importing Certificate

Certificate for your web server can also be signed by a third party Certification Authority as in the same manner as when normally opening a web site using HTTPS without using the Local Certification Authority of LCA-DL30.

- (1) Click [Import(I)] on the LCA-DL30 main screen to display the [Import] dialog.
- (2) Specify the file name and key/password and click [OK] to transfer the certificate and the secret key to the DL-30.

Import	×
Specify file name to ir	mport certificate information.
Cert/Key PKCS12	
Unit Certificate*	
Unit Private key*	
* Required.	OK Cancel

Import	×
Specify file name	to import certificate information.
Cert/Key PKCS12	
PKCS12 File≭	
Password	
* Required.	OK Cancel

Figure 4.25 File importing dialog for DER format

Compatible file formats: DER (.crt, .key, .der) PKCS12 (.pfx, .p12)

Figure 4.26 File importing dialog for PKCS12 format

NOTES

• We are unable to answer any questions about certificates signed by third-party Certificate Authorities or the import of such certificates.

4.7 Rebuilding Local Certification Authority

Normally, there is no need to rebuild the Local Certification Authority which has been automatically created at initial startup of LCA-DL30 after installation.

However, if need arises, rebuilt the Local Certification Authority by clicking [New CA(N)] on the main screen and following the procedure in "4.3 Creating a Local Certification Authority" on page 7.

Q LCA-DL30	Import(<u>I</u>) Language(<u>I</u>) Version	(⊻)		-		×
Certifica	tion Authority		Certifica	te			
🗄 📰 Show CA File(<u>S</u>)		* 1 New Certificate(<u>C</u>)					
Name O CN	Value M-SYSTEM LCA-DL30		CN	Domain	IP Ad	dress	ĺ

Figure 27 Rebuilding Local Certification Authority

In that case, the certificate for the new Local Certification Authority must be manually installed on the browser/ OS of the terminal of the user again. See "4.5 Installing Local Certification Authority Certificate" on page 10.

4.8 Switching Display Language

The display language of LCA-DL30 is automatically selected depending on the language of your OS. Japanese is selected for Japanese OS and English is selected for OS non-Japanese OS.

In order to manually switch the display language, click [Language(L)] on the main screen to display the language switching dialog.

Restart LCA-DL30 to apply the change.

💡 LCA-DL30					_	×
New CA(<u>N</u>)	Import(<u>I</u>) Language	e(<u>L)</u> Version	(⊻)			
Certifica	tion Authority		Certifica	te		
🗄 🖾 Show	CA File(<u>S</u>)		🗄 🎦 New C	ertificate(<u>C</u>)		
Name O CN	Value M-SYSTEM LCA-DL30		CN	Domain	IP Address	

Figure 28 Switching Display Language

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camellia.c ver 1.2.0

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