EKI-7700 Series Managed Switch Backup/Upgrade Manager SOP

Backup ManagerUpgrade Manager

Revision Date	Revision	Description	Author
March/2018	V1.0	Initial release	ICG AE Eddie.Wei / Raimen Liu

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Abstract

- This SOP explains how to operate *Backup* and *Upgrade Manager* on Advantech EKI-7700 series industrial managed switch.
- Related products:

EKI-7428, EKI-7706, EKI-7708, EKI-7710, EKI-7712, EKI-7716, EKI-7720.

- Requirement: Advantech managed switch, RJ45 ethernet cable, PC
- * Appendix: Upgrade Firmware & Configuration via CLI w/ TFTP



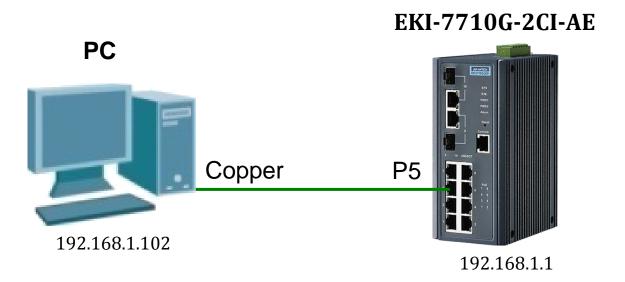


Backup Manager

Backup via HTTPBackup via TFTP



Purpose: Backup device image via HTTPTopology:





Step 1: Logging the switch with admin/admin as Username/Password by default.

Username		
admin		
Password		
•••••		
	Login	



Step 2: Under <u>Tools -> Backup Manager</u>
 Choose Backup Method as HTTP
 Choose Backup type as Image

AD \ANTECH	EKI-7710G-2CI-AE Intelligent Industrial Switch			
🖵 Monitoring				
🖭 System				
	Backup			
𝗞 MAC Address Table	Backup Method	НТТР		
♥ Security	Backup Type	Image		
➔ QoS		O Running configuration		
☑ Management		O Startup configuration	For Backup Type descrip	
€ Diagnostics		O Flash log	please refer to the next s	lide.
≁ Tools		O Buffered log		
IXM 1	Image	• EKI-7710E-2CI-AE-1-00-78.hex (Active	e)	
Backup Manager	3	O EKI-7710E-2CI-AE-1-00-78.hex (Back	up)	
Upgrade Manager		Backup		
Dual Image				

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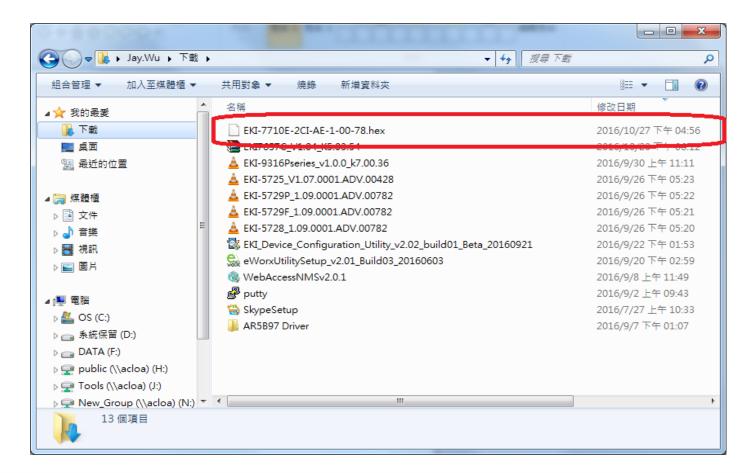
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Backup Types

Backup type	Description
Image	Backup your firmware and output as a XXX.hex file
Running Configuration	Backup Running configuration file
Startup Configuration	Backup Startup configuration file
Flash Log	Backup Flash Log to file
Buffered Log	Backup Buffered Log to file
Image	Description
XXX.hex (Active)	Backup "Active" firmware
XXX.hex (Backup)	Backup "Backup" firmware



Result: When the download finished, the file would be in your default *Downloads/* directory.



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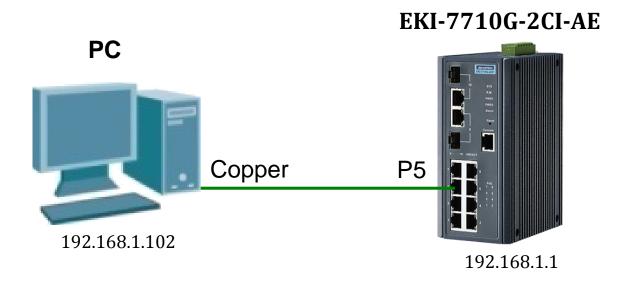
Backup Manager

Backup via HTTPBackup via TFTP



- Purpose: Backup device image via TFTP
- Resource requirements: Tftpd 64 <u>http://tftpd32.jounin.net/tftpd32_download.html</u>

Topology:





■ Step 1: Run TFTPD64.EXE program on PC.

	rogram Files\Apache		Browse		
Server interfaces 192 Tftp Server Tftp Client	168.1.102	Realtek R1 💌 g viewer	<u>Show D</u> ir	->	TFTP server's IP
peer	file		progress		
•	III		- F		
<u>A</u> bout	<u>S</u> ettings		<u>H</u> elp		



Step 2: Press "*Browse*" button, and then choose the destination directory you like to save the file.





Step 3: Logging the switch with admin/admin as Username/Password by default.

Username		
admin		
Password		
•••••		
	Login	



- Step 4: Under *Tools -> Backup Manager*
- Choose Backup Method as TFTP
- 4-3.Input "server IP": X.X.X.X (Your PC IP, ex: 192.168.1.102)
- Choose Backup type as Image

AD\ANTECH	EKI-7710G-2CI-AE Intelligent Industrial Switch			
Gamma Monitoring				
💷 System	* D 1		Noted that PC and Sy must the same netwo	
	🏟 Backup		must the same netwo	ik segment
𝗞 MAC Address Table	Backup Method	TFTP		
Security	Z Server IP	192.168.1.102	(IPv4 or IPv6 Address)	
🔊 QoS	Backup Type	• Image		
Management		O Running configuration		
Q Diagnostics		O Startup configuration	For Backup Type desc	riptions,
🗲 Tools		O Flash log	please refer to the pre-	
IXM 1		O Buffered log		
Backup Manager	Image	• EKI-7710E-2CI-AE-1-00-78.hex (Active)		
Upgrade Manager		O EKI-7710E-2CI-AE-1-00-78.hex (Backup)		
Dual Image	3	Backup		
Save Configuration				

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Result: When Backup successful, you will see the firmware file is in the directory.

Í	🏘 Tftpd64 Service Edition by Ph. Jounin 📃 🖃	
8	Current Directory F:\D DATA\產品相關新韌體\EKI' -	<u>B</u> rowse
	Server interfaces 192.168.1.102 Realtek R1	Show <u>D</u> ir
	Tftp Server Tftp Client Syslog server Log viewer	
¢	eKI-7710E-2CI-AE-1-00-78.hex	from
y	File size : Unknown 6841856 Bytes rovd 570154 Bytes/sec	
-		Tftpd64: directory
ł	Clear Copy	EKI-7710E-2CI-AE-1-00-78.hex 2016/10/12 940 running-config 2016/10/27 3249
e	About <u>S</u> ettings	
		Close Copy Explorer

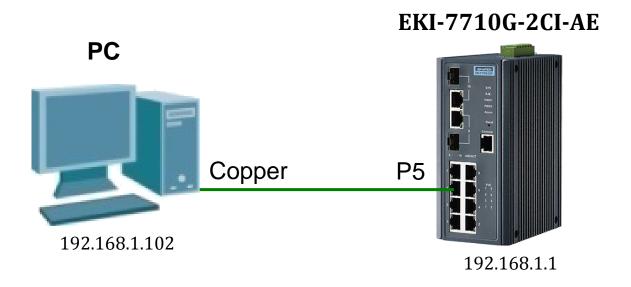


Upgrade Manager

Upgrade via HTTPUpgrade via TFTP



Purpose: Upgrade device image via HTTP
Resource requirements: Firmware (.hex) file
Topology:



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Step 1: Logging the switch with admin/admin as Username/Password by default.

Username		
admin		
Password		
•••••		
	Login	



Step 2: Under <u>Tools -> Upgrade Manager</u>
Choose Upgrade Method as HTTP
Choose Upgrade type as Image

AD\ANTECH	EKI-7710G-2CI-AE Intelligent Industrial Switch		
G Monitoring			
🖭 System			
	Upgrade		
𝕎 MAC Address Table	Upgrade Method	TFTP HTTP	
Security	Server IP	Input IP	(IPv4 or IPv6 Address)
•) QoS	File Name	Input file name	
Management	Upgrade Type	• Image	
€ Diagnostics		O Startup configuration	For <i>Upgrade Type</i> descriptions, please refer to the next slide.
≁ Tools		O Running configuration	please feler to the next shde.
IXM	Image	• EKI-7710E-2CI-AE-1-00-78.hex (Active)	
Backup Manager 1		O EKI-7710E-2CI-AE-1-00-78.hex (Backup)	
Upgrade Manager		O Auto	
Dual Image		Upgrade	
Save Configuration			

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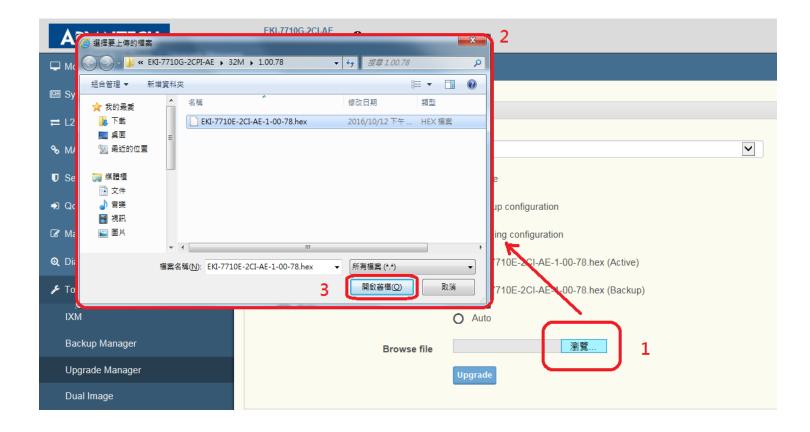
Upgrade Types

Upgrade type	Description
Image	Upgrade firmware
Running Configuration	Restore Startup configuration file
Startup Configuration	Restore Running configuration file
Image	Description
	Description
XXX.hex (Active)	Upgrade new firmware or configuration file to image0
XXX.hex (Active) XXX.hex (Backup)	

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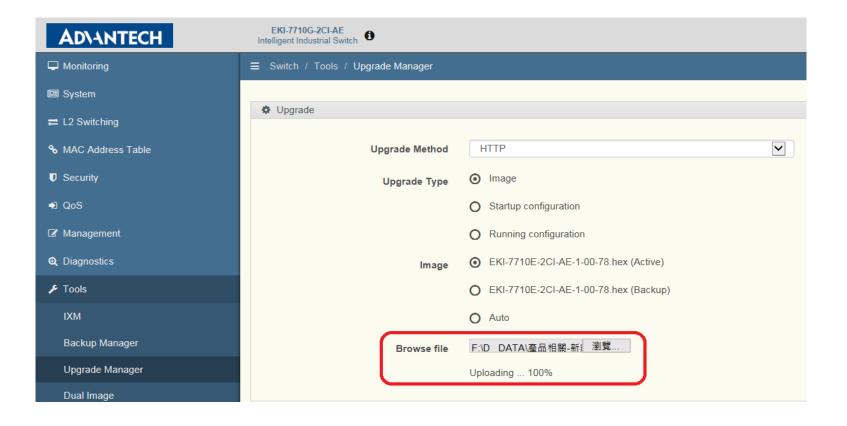
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Step 3: Press *"Browse"* button, and then choose the firmware name (*.hex) you would like to use, Then press "Upgrade" button



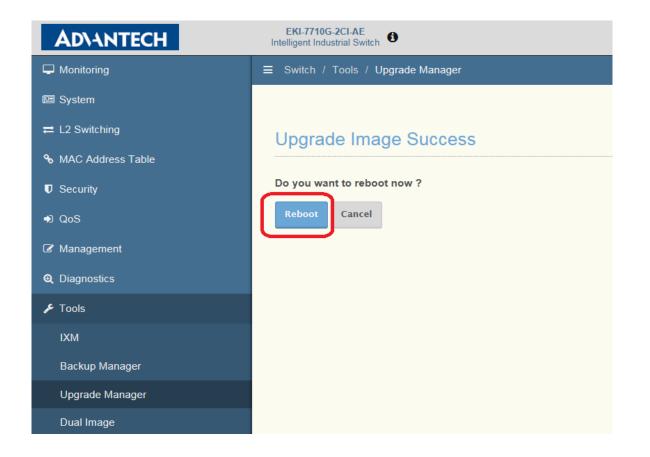


Step 4: Now you will see the upgrade process bar running until 100%





Result: When upgrade successful, the web page will request you press "Reboot" to make new firmware affect.



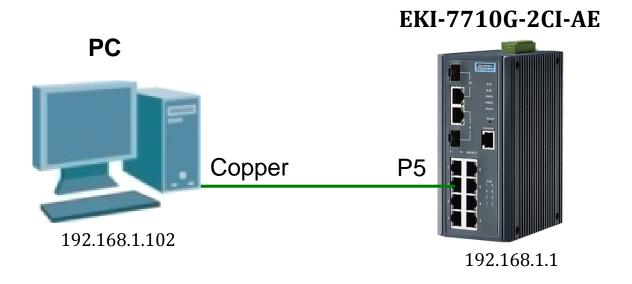


Upgrade Manager

Upgrade via HTTPUpgrade via TFTP



- Purpose: Backup device image via TFTP
- Resource requirements: Firmware (.hex) file, and Tftpd 64 <u>http://tftpd32.jounin.net/tftpd32_download.html</u>
- Topology:





■ Step 1: Run TFTPD64.EXE program on PC.

Tftpd64 Service Edition by Ph. Jounin Current Directory C:\Program Files\Apache Software F(- Browse	
Server interfaces 192.168.1.102 Realtek R1 ▼ Show Dir Tftp Server Tftp Client Syslog server Log viewer	→ TFTP server's IP
peer file start time progress	
۰ III ا	
<u>A</u> bout <u>S</u> ettings <u>H</u> elp	



Step 2: Press *"Browse"* button, and then choose the destination directory where you save the file.





Step 3: Press "*Show Dir*" button, choose the firmware you like to upgrade, then press "*Copy*", and then press "*Close*" button.





Step 4: Logging the switch with admin/admin as Username/Password by default.

Username		
admin		
Password		
•••••		
	Login	



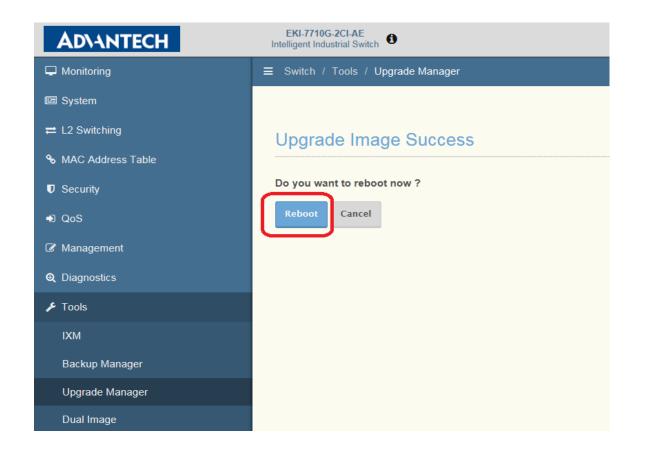
- Step 5: Under <u>Tools -> Upgrade Manager</u>
- Choose Upgrade Method as TFTP
- Input "server IP": X.X.X.X (Your PC IP, ex: 192.168.1.102)
- Input "File Name": Input firmware name or Press "Ctrl+V" to firmware file name column.

AD\ANTECH	EKI-7710E-2C-AE Intelligent Industrial Switch	
P Monitoring		Noted that PC and Switch IP address
System		must the same network segment
	Upgrade	
✤ MAC Address Table	Upgrade Method TFTP	
Security	Server IP 192.168.1.102	(IPv4 or IPv6 Address)
+) QoS	File Name EKI-7710E-2CI-AE-1-00-78.hex	
☑ Management	Upgrade Type O Image 3.	
Q Diagnostics	O Startup configuration	For Upgrade Type descriptions,
🗲 Tools	O Running configuration	please refer to the previous slide.
IXM	Image O EKI-7710G-2CPI-AE-1-00-87.hex (Backup)	
Backup Manager	O EKI-7710G-2CPI-AE-1-00-97.hex (Active)	
Upgrade Manager	O Auto	
Dual Image	Upgrade	
Save Configuration	4 .	

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Result: When upgrade successful, the web page will request you press *"Reboot"* to make new firmware affect.









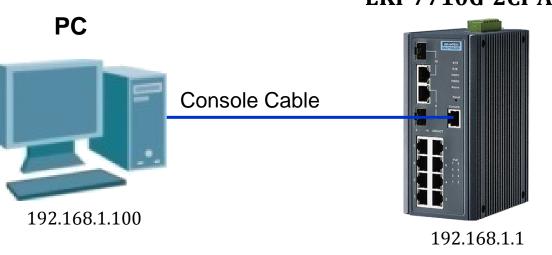
Appendix

■ Upgrade via CLI w/ TFTP



Upgrade via CLI w/ TFTP

- Purpose: Backup device image via CLI with TFTP
- Resource requirements: Firmware (.hex) file, Configuration file, Console cable, and Tftpd 64 (<u>http://tftpd32.jounin.net/tftpd32_download.html</u>)
- How to select Advantech managed switch console cable: http://support.advantech.com/support/KnowledgeBaseSRDetail_New.aspx?S
 R_ID=1- 1IOM96L&Doc_Source=Knowledge+Base
- Topology:



EKI-7710G-2CI-AE



Upgrade via CLI w/ TFTP

■ Step 1: Run TFTPD64.EXE program on PC.

Curre	tpd64 S ent Direct er interfa	tory [C:\Pro	ion by Ph. Jo gram Files\Apa 68.1.102	ache Software F Realtek R		Browse			
	Server	Tftp Cl		Syslog server				->	TFT	P server's IP
pee	er			file	start time	e progres:	s			
				111			4			
	<u>A</u> bout			<u>S</u> ettin	gs	<u>H</u> e	lp			



Upgrade via CLI w/ TFTP

Step 2: Press *"Browse"* button, and then choose the destination directory where you save the file.





Upgrade via CLI w/ TFTP (for Firmware)

Step 3: Connect PC and the switch with corresponding console cable and enter the CLI. (For entering CLI, please refer to the following SOP:)
 Type in the following command:

switch# copy tftp://192.168.1.100/EKI-7710G-2CPI-AE-1-00-97.hex flash://image0

Your full file name

B COM1 - PuTTY	x
	A
switch# copy tftp://192.168.1.100/EKI-7710G-2CPI-AE-1-00-97.hex flash://image0	
Downloading Image filePlease Wait	
Upgrade Image file success.	
Do you want to reboot now? (y/n)y	



Upgrade via CLI w/ TFTP (for Configuration)

Step 3: Connect PC and the switch with corresponding console cable and enter the CLI. (For entering CLI, please refer to the following SOP:)
 Type in the following command:

switch# copy tftp://192.168.1.100/startup-config.cfg startup-config Your full file name



