EKI-7700 Series Managed Switch SNTP Configuration SOP

LAB 1: NTP Server is in the Same LAN
LAB 2: NTP Server is on the Internet

Revision Date	Revision	Description	Author
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Abstract

- * This SOP explains how to configure SNTP 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
- * How to select Advantech managed switch console cable: <u>http://support.advantech.com/support/KnowledgeBaseSRDetail_New.aspx?SR_ID=1</u> <u>1IOM96L&Doc_Source=Knowledge+Base</u>





Topology Diagram: Synchronize time with local device (PC, laptop etc.)





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

Username		
admin		
Password		
••••		
	Login	



- Setting:
 - Step 2: Under <u>System -> System Time</u>, set SNTP as "Enabled", input SNTP/NTP Server Address 192.168.1.49, select "Time Zone" and press "Apply" button.

🕮 System					
IP Settings	System Time Settings				
DHCP Client Option 82	Enable SNTP	O Disabled O Enabled			
DHCP Auto Provision	SNTP/NTP Server Address	192.168.1.49			(X.X.X.X or Hostname)
IPv6 Settings	SNTP Port	123			(1 - 65535 Default : 123)
Management VLAN	Manual Time	Year	Month	Dav	
System Time	wanuai iime	2000	Jan	✓ 1	
		Hour	Minute	Second	
S MAC Address Table		0	0	0	\checkmark
♥ Security	Time Zone	(GMT+08:00) Taipei			
♦Ĵ QoS	Daylight Saving Time	Disable			
Management	Daylight Saving Time Offset	60			(1 - 1440) Minutes
		Apply			



- Result:
 - After setting the SNTP, we should be able to see that the system time of SW(192.168.1.1) is now following the laptop A(192.168.1.49).

System Time Information			
Information Name	Information Value		
Current Date/Time	18:49:47 web(GMT+8) Jan 11 2016		
SNTP	Enabled		
SNTP Server Address	192.168.1.49		
SNTP Server Port	123		
Time zone	GMT+8		
Daylight Saving Time	Disabled		
Daylight Saving Time Offset			





Topology Diagram: Synchronize time with NTP server on the internet.



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



- Setting:
 - Switch IP must use DHCP client to access internet.
 - Step 2: Under <u>System -> IP Settings</u>, select "DHCP" and then press "Apply" button. (We can confirm now switch IP address is 172.17.6.107 from console which command is "switch# show ip")

🖽 System				
ID Settings	IP Address Settings			
IF Settings	Mode	O Static O DHCP		
DHCP Client Option 82	Moue			
DHCP Auto Provision	IP Address	192.168.1.2		
IPv6 Settings	Subnet Mask	255.255.255.0		
Management VLAN	Gateway	192.168.1.254		
System Time	DNS Server 1	168.95.1.1		
		400.05.400.4		
S MAC Address Table	DNS Server 2	168.95.192.1		
		Apply		
♥ Security				
QoS IP Address Information				
C Management	Information Name	Information Value		
Q Diagnostics	DHCP State	Enabled		
🗲 Tools	Current IP Address	172.17.6.107		
	Current Subnet Mask	255.255.254.0		
	Current Gateway	172.17.7.254		
	Current DNS Server 1	172.20.1.100		
	Current DNS Server 2	172.20.1.99		

- Setting:
 - Step 3: Under <u>System -> System Time</u>, set SNTP as "Enabled", input SNTP Server Address 118.163.81.61, select "Time Zone" and press "Apply" button.
 - Noted that we also support **hostname**, for example: time.stdtime.gov.tw

🖽 System					
IP Settings	System Time Settings				
DHCP Client Option 82	Enable SNTP	O Disabled O Enabled			
DHCP Auto Provision	SNTP/NTP Server Address	118.163.81.61			(X.X.X.X or Hostname)
IPv6 Settings	SNTP Port	123			(1 - 65535 Default : 123)
Management VLAN	Manual Time	Year	Month	Dav	
System Time	Manual Time	2000	Jan 🗸	1	\checkmark
		Hour	Minute	Second	
✤ MAC Address Table		0	0 🗸	0	\checkmark
♥ Security	Time Zone	(GMT+08:00) Taipei			v
➡ QoS	Daylight Saving Time	Disable			v
		Apply			



- Result:
 - After setting the SNTP, we should be able to see that the system time of SW(192.168.1.1) is now following the NTP server(118.163.81.61).

System Time Information			
Information Name	Information Value		
Current Date/Time	18:25:03 web(GMT+8) Jan 11 2016		
SNTP	Enabled		
SNTP Server Address	118.163.81.61		
SNTP Server Port	123		
Time zone	GMT+8		
Daylight Saving Time	Disabled		
Daylight Saving Time Offset			

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