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Chapter 1 Commands for SNTP

1.1 clock timezone

Command: clock timezone WORD {add | subtract} <0-23> [<0-59>]

no clock timezone WORD

Function: This command configures timezone in global mode, the no command deletes

the configured timezone.

Parameters: WORD: timezone name, the length should not exceed 16

add | subtract: the action of timezone

<0-23>: the hour value <0-59>: the minute value

Command Mode: Global mode

Default: None.

Usage Guide: The timezone name is invalid with the blank, the hour and minute value

must be in the specific range.

Example: Configure the action as add for the eighth timezone globally.

Switch(config)#clock timezone aaa add 8

1.2 debug sntp

Command: debug sntp {adjust | packet | select }

no debug sntp {adjust | packet | select}

Function: Displays or disables SNTP debug information.

Parameters: adjust stands for SNTP clock adjustment information; packet for SNTP

packets, select for SNTP clock selection.

Command mode: Admin Mode

Example: Displaying debugging information for SNTP packet.

Switch#debug sntp packet

1.3 sntp polltime

Command: sntp polltime <interval>

no sntp polltime

Function: Sets the interval for SNTP clients to send requests to NTP/SNTP; the "no

sntp polltime" command cancels the polltime sets and restores the default setting.

Parameters: <interval> is the interval value from 16 to 16284.

Default: The default polltime is 64 seconds.

Command Mode: Global Mode

Example: Setting the client to send request to the server every 128 seconds.

Switch#config

Switch(config)#sntp polltime128

1.4 sntp server

Command: sntp server {<ip-address> | <ipv6-address>} [source {vlan <vlan no> | loopback <loopback no>}] [version <version_no>]

no sntp server {<ip-address> | <ipv6-address>} [source {vlan <vlan no>

| loopback <loopback no>}] [version <version_no>]

Function: Enable the specified time server as clock source, the no command deletes the specified time server.

Parameters: ip-address: IPv4 address of time server

ipv6-address: IPv6 address of time server

source: Specify the interface of the source address

vlan: Configure the virtual LAN

vlan no: Virtual LAN number, ranging from 1 to 4094

loopback: Configure loopback interface

loopback no: Loopback identifier, ranging from 1 to 1024

version: Configure the version for the server

version_no: Version number, ranging from 1 to 4, the default is 4

Default: Do not configure the time server.

Command Mode: Global mode

Usage Guide: None.

Example:

Configure the time server address as 1.1.1.1, specify the interface of the source address as vlan1:

Switch(config)#sntp server 1.1.1.1 source vlan 1

Delete the time server that the address is 1.1.1.1, the interface of the specified source address is vlan1:

Switch(config)#no sntp server 1.1.1.1 source vlan 1

1.5 show sntp

Command: show sntp

Function: Displays current SNTP client configuration and server status.

Parameters: N/A.

Command Mode: Admin and Configuration Mode. **Example:** Displaying current SNTP configuration.

Commands for Network Time Management

Chapter 1 Commands for SNTP

Switch#show sntp
SNTP server Version Last Receive
2.1.0.2 1 6

Chapter 2 Commands for NTP

2.1 clock timezone

Command: clock timezone WORD {add | subtract} <0-23> [<0-59>]

no clock timezone WORD

Function: This command configures timezone in global mode, the no command deletes

the configured timezone.

Parameters: WORD: timezone name, the length should not exceed 16

add | subtract: the action of timezone

<0-23>: the hour value <0-59>: the minute value

Command Mode: Global mode

Default: None.

Usage Guide: The timezone name is invalid with the blank, the hour and minute value

must be in the specific range.

Example: Configure the action as add for the eighth timezone globally.

Switch(config)#clock timezone aaa add 8

2.2 debug ntp adjust

Command: debug ntp adjust no debug ntp adjust

Function: To enable/disable the debug switch of displaying local time adjust information.

Parameter: None. **Default:** Disabled.

Command Mode: Admin Mode.

Usage Guide: None.

Example: To enable the debug switch of displaying local time adjust information.

Switch# debug ntp adjust

2.3 debug ntp authentication

Command: debug ntp authentication no debug ntp authentication

Function: To display NTP authentication information, the no form command disabled the

switch of displaying NTP authentication information.

Parameter: None. **Default:** Disabled.

Command Mode: Admin Mode.

Usage Guide: To display NTP authentication information, if the switch is enabled, and if the packets schlepped authentication information when the packet in sending or receiving process, then the key identifier will be printed out.

Example: To enable the switch of displaying NTP authentication information.

Switch# debug ntp authentication

2.4 debug ntp events

Command: debug ntp events no debug ntp events

Function: To enable/disable debug switch of displaying NTP event.

Parameter: None.

Default: Disable the debug switch of displaying NTP event.

Command Mode: Admin Mode.

Usage Guide: To enable debug switch of displaying NTP event, after that, if some server changed from available to unavailable or from unavailable to available, the received illegal packet events will be printed.

Example: To enable debug switch of displaying NTP event information.

Switch# debug ntp events

2.5 debug ntp packet

Command: debug ntp packet [send | receive] no debug ntp packet [send | receive]

Function: To enable/disable the debug switch of displaying NTP packet information.

Parameter: send: The debug switch of sending NTP packet.

receive: The debug switch of receiving NTP packet.

If there is no parameter, that means should enable the sending and receiving switch of NTP packet in the same time.

Default: Disabled.

Command Mode: Admin Mode.

Usage Guide: None.

Example: To enable the debug switch of displaying NTP packet information.

Switch# debug ntp packet

2.6 debug ntp sync

Command: debug ntp sync no debug ntp sync

Function: To enable/disable debug switch of displaying local time synchronization

information.

Parameter: None. **Default:** Disabled.

Command Mode: Admin Mode.

Usage Guide: None.

Example: To enable debug switch of displaying local time synchronization information.

Switch# debug ntp sync

2.7 ntp access-group

Command: ntp access-group server <acl>
no ntp access-group server <acl>

Function: To configure/cancel the access control list of NTP Server.

Parameter: <acl>: ACL number, range is from 1 to 99. **Default:** Not configure the access control of NTP Server.

Command Mode: Global Mode.

Usage Guide: None.

Example: To configure access control list 2 on the switch.

Switch(config)#ntp access-group server 2

2.8 ntp authenticate

Command: ntp authenticate no ntp authenticate

Function: To enable/cancel NTP authentication function.

Parameter: None.

Default: Disabled.

Command Mode: Global Mode.

Usage Guide: None.

Example: To enable NTP authentication function.

Switch(config)#ntp authenticate

2.9 ntp authentication-key

Command: ntp authentication-key <key-id> md5 <value>

no ntp authentication-key < key-id>

Function: To enable/cancel NTP authentication function, and defined NTP authentication

kev.

Parameter: key-id: The id of key, range is from 1 to 4294967295.

value: The value of key, range between 1 to 16 of ascii code.

Default: The authentication key of NTP authentication is not configured by default.

Command Mode: Global Mode.

Usage Guide: None.

Example: To define the authentication key of NTP authentication, the key-id is 20, the

md5 is abc.

Switch(config)# ntp authentication-key 20 md5 abc

2.10 ntp broadcast client

Command: ntp broadcast client no ntp broadcast client

Function: To configure/cancel the specified port to receive NTP broadcast packets.

Parameter: None. Default: Disabled.

Command Mode: vlan Configuration Mode.

Usage Guide: None.

Example: Enable the function of VLAN1 interface to receive NTP broadcast packets.

Switch(config)# interface vlan 1

Switch(Config-if-Vlan1)#ntp broadcast client

2.11 ntp broadcast server count

Command: ntp broadcast server count < number >

no ntp broadcast server count

Function: Set the max number of broadcast or multicast servers supported by the NTP

client. The no operation will cancel the configuration and restore the default value.

Parameters: number: 1-100, the max number of broadcast servers.

Default: The default max number of broadcast servers is 50.

Command Mode: Global Mode.

Examples: Configure the max number of broadcast servers is 70 on the switch.

Switch(config)#ntp broadcast server count 70

2.12 ntp disable

Command: ntp disable no ntp disable

Function: To disable/enable the NTP function on port.

Parameter: None.

Default: To enable NTP function on all ports. **Command Mode:** vlan Configuration Mode.

Usage Guide: None.

Example: To disable the NTP function on vlan1 interface.

Switch(config)# interface vlan 1 Switch(Config-if-Vlan1)#ntp disable

2.13 ntp enable

Command: ntp enable ntp disable

Function: To enable/disable NTP function globally.

Parameter: None. **Default:** Disabled.

Command Mode: Global Mode.

Usage Guide: None.

Example: To enable NTP function.

Switch(config)#ntp enable

2.14 ntp ipv6 multicast client

Command: ntp ipv6 multicast client no ntp ipv6 multicast client

Function: Configure the specified interface to receive IPv6 NTP multicast packets, the no command will cancels the specified interface to receive IPv6 NTP multicast packets.

Parameter: None.

Command mode: vlan mode

Default: Interface does not receive IPv6 NTP multicast packets.

Usage guide: None.

Example: Enable the function for receiving IPv6 NTP multicast packets on vlan1

interface.

Switch(Config)# interface vlan 1

Switch(Config-if-Vlan1)#ntp ipv6 multicast client

2.15 ntp multicast client

Command: ntp multicast client no ntp multicast client

Function: Configure the specified interface to receive NTP multicast packets, the no

command will cancels the specified interface to receive NTP multicast packets.

Parameter: None.

Command mode: vlan mode

Default: Interface does not receive NTP multicast packets.

Usage guide: None.

Example: Enable the function for receiving NTP multicast packets on vlan1 interface.

Switch(Config)# interface vlan 1 Switch(Config-if-Vlan1)#ntp multicast client

2.16 ntp server

Command: ntp server {<ip-address> | <ipv6-address>} [version <version_no>] [key <key-id>]

no ntp server {<ip-address>|<ipv6-address>}

Function: To enable specified time server of time source, the no form of this command cancels the specified time server of time source.

Parameter: ip-address: IPv4 address of time server.

ipv6-address: IPv6 address of time server.

version: The version information configured for server.

version_no: The version number of server, range is from 1 to 4, default is 4.

key: To configure key for server.

key-id: The key id.

Default: Disabled.

Command Mode: Global Mode.

Usage Guide: None.

Example: To configure time server address as 1.1.1.1 on switch.

Switch(config)#ntp server 1.1.1.1

2.17 ntp trusted-key

Command: ntp trusted-key < key-id>
no ntp trusted-key < key-id>

Function: To configure the trusted key. The no command cancels the trusted key.

Parameter: key-id: The id of key, range is from 1 to 4294967295.

Default: Trusted key is not configured by default.

Command Mode: Global Mode.

Usage Guide: None.

_ _ _ _

Example: To configure the specified key 20 to trusted key.

Switch(config)# ntp trusted-key 20

2.18 show ntp status

Command: show ntp status

Function: To display time synchronization status, include synchronized or not, layers,

address of time source and so on.

Parameter: None.

Default: None.

Command Mode: Admin and Configuration Mode.

Usage Guide: None.

Example:

Switch# show ntp status Clock status: synchronized

Clock stratum: 3

Reference clock server: 1.1.1.2

Clock offset: 0.010 s Root delay: 0.012 ms Root dispersion: 0.000 ms

Reference time: TUE JAN 03 01:27:24 2006

2.19 show ntp session

Command: show ntp session [<ip-address>| <ipv6-address>]

Function: To display the information of all NTP session or one specific session, include server ID, server layer, and the local offset according to server. (The symbol * means this server is the selected local time source)

Parameter: ip-address: The IPv4 address of some specifics configured time server.

ipv6-address: The IPv6 address of some specifics configured time server.

If no parameter, the session relative information of all servers will be displayed

(Include broadcast and multicast servers)

Default: None.

Command Mode: Admin and Configuration Mode.

Usage Guide: None.

Example:

(Switch)# show ntp session

server	stream	type	rootdelay	rootdispersion		trustlevel
* 1.1.1.2	2	unicast	0.010s	0.002s	10	
2.2.2.2	3	unicast	0.005s	0.000s	10	

Chapter 3 Commands for DNSv4/v6

3.1 clear dynamic-host

Command: clear dynamic-host {<ip-address> | <ipv6-address> | all}

Function: To delete the domain entry of specified address or all address in dynamic

cache.

Parameter: <*ip-address*> is the IP address, in dotted decimal notation; <*ipv6-address*> is the IPv6 address; **all** is to delete the domain entry of all address in dynamic cache.

Command Mode: Admin Mode.

Default: Disabled.

Usage Guide: This command is used to manually delete the domain name and address entry in dynamic cache, this command is much useful when domain name have lived long time in cache.

Example: To delete the address of 202.108.22.5 of domain entry.

Switch# clear dynamic-host 202.108.22.5

3.2 debug dns

Command: debug dns {all | packet [send | recv] | events | relay} no debug dns {all | packet [send | recv] | events | relay}

Function: To display the application debug information of DNS domain name resolution, the no form of this command disables the debug display.

Parameter: None.

Command Mode: Admin Mode.

Example:

Switch# debug dns all

Switch# ping host www.sina.com.cn

%Jan 01 00:03:13 2006 domain name www.sina.com.cn is to be parsed!

%Jan 01 00:03:13 2006 Dns guery type is A!

%Jan 01 00:03:13 2006 Connect dns server 10.1.120.241

ping www.sina.com.cn [202.108.33.32]

Type ^c to abort.

Sending 5 56-byte ICMP Echos to 202.108.33.32, timeout is 2 seconds.

%Jan 01 00:03:15 2006 Host:www.sina.com.cn Address:202.108.33.32

.

Success rate is 0 percent (0/5), round-trip min/avg/max = 0/0/0 ms

3.3 dns-server

Command: dns-server {<ip-address>|<ipv6-address>} [priority <value>] no dns-server {<ip-address>|<ipv6-address>}

Function: To configure/delete DNS server.

Parameter: <*ip-address*> is the IP address, in dotted decimal notation, <*ipv6-address*> is the IPv6 address, <*value*> is the priority of DNS server, range between 0~255, 0 by default.

Command Mode: Global Mode.

Default: Not configuration.

Usage Guide: This command is used for configure or delete DNS server, when need to enable dynamic domain name mapping, the switch will sending a domain name search request packet to configured DNS server, the DNS server can be configured no more than 6. The priority is the optional parameter, if priority is configured, the DNS server must be organized according to the order of priority, from high to low. That is the switch sending domain name search request to the server which have the biggest priority, so some DNS server with quick search speed and used frequently can be configured to highest priority. If priority is not configured, to search DNS server must according to the configuration order. When the switch serves as a DNS SERVER, the queries to the DNS SERVER won't follow the above privilege rule; instead, the requests will be sent to all configured servers at the same time

Example: To configure the priority of DNS server as 200, the server's address is 10.1.120.241.

Switch(config)# dns-server 10.1.120.241 priority 200

3.4 dns lookup

Command: dns lookup {ipv4 | ipv6} <hostname>

Function: To enable DNS dynamic domain name resolution.

Parameter: {ipv4 | ipv6} means the IPv4 or IPv6 address look up, <hostname> is the

resolute dynamic host name, less than 63 characters.

Command Mode: Global Mode.

Default: Disabled.

Usage Guide: This command is used to look up correspond address based on entered client name, it can look up both IPv4 and IPv6 address. This command only used for domain name mapping, it have no other application function. When command is running, interrupt is forbidding. If configured many servers and domain name suffix, longer time will be required for domain name mapping.

Example: To look up the IPv4 address of www.sina.com.

Switch(config)# dns lookup ipv4 www.sina.com

3.5 show dns name-server

Command: show dns name-server

Function: To display the information of configured DNS server.

Parameter: None.

Command Mode: Admin and Configuration Mode.

Example:

Switch# show dns name-server

DNS NAME SERVER:

Address Priority
10.1.120.231 100
10.1.180.85 80
2001::1 20

3.6 show dns domain-list

Command: show dns domain-list

Function: To display the suffix information of configured DNS domain name.

Parameter: None.

Command Mode: Admin and Configuration Mode.

Example:

Switch# show dns domain-list

DNS DOMAIN LIST:

com.cn edu.cn

3.7 show dns hosts

Command: show dns hosts

Function: To display the dynamic domain name information of resolute by switch.

Parameter: None.

Command Mode: Admin and Configuration Mode.

Example:

Switch# show dns hosts

Total number of dynamic host is 2

DNS HOST LIST:

HostnameAddressTime to liveTypewww.sina.com.cn202.108.33.32168000dynamicwww.ipv6.org2001:6b0:1:168060dynamic

3.8 show dns config

Command: show dns config

Function: Display the configured global DNS information on the switch.

Parameter: None.

Command Mode: Admin and Configuration Mode.

Example:

Switch(config)#show dns config

ip dns server enable ip domain-lookup enable

the maximum of dns client in cache is 3000, timeout is 5

dns client number in cache is 0 dns dynamic host in cache is 0 dns name server number is 1 dns domain-list number is 0

3.9 show dns client

Command: show dns client

Function: Display the DNS Client information maintained by the switch.

Parameter: None.

Command Mode: Admin and Configuration Mode.

Example:

Switch(config)#show dns client

DNS REQUEST LIST:

Total number of dns request is 2

Address Request Id 192.168.11.141 1 192.168.11.138 2

3.10 ip domain-lookup

Command: ip domain-lookup no ip domain-lookup

Function: To enable/disable DNS function, whether the switch will send dynamic DNS

domain queries to the real DNS server or not.

Parameter: None.

Command Mode: Global Mode.

Default: Disabled.

Usage Guide: This command is used to enable or disable the switch DNS dynamic query function. If DNS dynamic query function is enabled, the DNS server will resolve the

host name and domain name to the IPv4 or IPv6 address for requests from the clients. If DNS is disabled, client applications will not be able to send any DNS requests to the DNS server. In this situation, only the static address resolution is available. For the address mapping in the resolve cache, which is learnt through DNS before, will be invalid after aging.

Example: To enable DNS function, can resolve the domain name dynamic.

Switch(config)# ip domain-lookup

3.11 ip domain-list

Command: ip domain-list <WORD>
no ip domain-list <WORD>

Function: To configure/delete domain name suffix.

Parameter: <WORD> is the character string of domain name suffix, less than 63

characters.

Command Mode: Global Mode.

Default: Disabled.

Usage Guide: This command is used to configure or delete suffix of domain name, when the entered domain name is not integrity (such as sina), the switch can add suffix automatically, after that, address mapping can run, the domain name suffix can be configured no more than 6. The first configured domain name suffix will be added first.

Example: To configure domain name suffix of com.

Switch(config)# ip domain-list com

3.12 ip dns server

Command: ip dns server no ip dns server

Function: Enable/disable DNS SERVER function.

Parameter: None.

Command Mode: Global Mode. **Default:** Disabled by default.

Usage Guide: After the DNS SERVER function is enabled, the switch will be able to receive and handle DNS Requests from the clients by looking up locally or forward the

request to the real DNS server.

Example: Configure to enable the dns server function of the switch.

Switch(config)#ip dns server

3.13 ip dns server queue maximum

Command: ip dns server queue maximum <1-5000>

no ip dns server queue maximum

Function: Configure the max number of client information in the switch queue.

Parameter: <1-5000> the value can be 1 - 5000.

Command Mode: Global Mode.

Default: The default client number is 3000.

Usage Guide: When receiving a DNS Request from a client, the switch will cache the client's information. But the number of client information in the queue should not exceed the configured maximum number; otherwise the client's request won't be handled.

Example: Set the max number of client information in the switch queue as 2000.

Switch(config)#ip dns server queue maximum 2000

3.14 ip dns server queue timeout

Command: ip dns server queue timeout <1-100>

no ip dns server queue timeout

Function: Configure the timeout value of caching the client information on the switch.

Parameters: <1-100> the value can be1 - 100s.

Command Mode: Global Mode.

Default: The default timeout value is 5s.

Usage Guide: When receiving a DNS Request from a client, the switch will cache the client's information. But the time of maintaining the client information should not exceed the configured maximum timeout value; otherwise the client's information will be cleared out.

Example: Configure the maximum timeout value of caching the client information on the switch as 10s.

Switch(config)#ip dns server queue timeout 10

Chapter 4 Commands for Summer Time

4.1 clock summer-time absolute

Command: clock summer-time <word> absolute <HH:MM> <YYYY.MM.DD> <HH:MM> <YYYY.MM.DD> [<offset>]

no clock summer-time

Function: Configure summer time range, the time in this range is summer time. The no command deletes the configuration.

Parameter: <word> is the time zone name of summer time; <HH:MM> is the start time, the format is hour (from 0 to 23):minute (from 0 to 59); <YYYY.MM.DD> is the start date, the format is year (from 1970 to 2038).month (from 1 to 12).date (from 1 to 31); <HH:MM> is the end time, the format is hour (from 0 to 23):minute (from 0 to 59); <YYYY.MM.DD> is the end date, the format is year (from 1970 to 2038).month (from 1 to 12).date (from 1 to 31); <offset> is the time offset, the range from 1 to 1440, unit is minute, default value is 60 minutes.

Default: There is no summer time range.

Command Mode: Global Mode

Usage Guide: This command sets the absolute start and end time for summer time. When the system time reaches to the start time point of summer time, the clock is changed and increase <offset> value, the system enters summer time. When the system time reaches to the end time point of summer time, the clock is changed again, subtract <offset> value from system time, the system finishes summer time. Note: the end time should be bigger than the start time for configuring summer time.

Example: Configure the time range of summer time at 12:10 from april 6th to augest 6th in 2010, offset value as 70 minutes, summer time is named as aaa.

Switch(config)#clock summer-time aaa absolute 12:10 2010.4.6 12:10 2010.8.6 70

4.2 clock summer-time recurring

Command: clock summer-time <word> recurring <HH:MM> <MM.DD> <HH:MM> <MM.DD> [<offset>]

no clock summer-time

Function: Configure the recurrent summer time range, the time in this range is summer time.

Parameter: <word> is the time zone name of summer time; <HH:MM> is the start time, the format is hour (from 0 to 23):minute (from 0 to 59); <MM.DD> is the start date, the format is month(from 1 to 12).date(from 1 to 31); <HH:MM> is the end time, the format is hour(from 0 to 23):minute(from 0 to 59); <MM.DD> is the end date, the format is month(from 1 to 12).date(from 1 to 31); <offset> is the time offset, the range from 1 to

1440, unit is minute, default value is 60 minutes.

Default: There is no summer time range.

Command Mode: Global Mode

Usage Guide: This command sets the start and the end time for the recurrent summer time. When the system time reaches to the start time point of summer time, the clock is changed and increase <offset> value, the system enters summer time. When the system time reaches to the end time point of summer time, the clock is changed again, subtract <offset> value from system time, the system finishes summer time. There is no relation between the recurrent summer time to the year, the system clock will be changed when it reaches to the start and the end time point of summer time year after year. This command supports the summer time of southern hemisphere.

Example: Configure the time range of summer time at 12:10 from april 6th to augest 6th year after year, offset value as 70 minutes, summer time is named as aaa.

Switch(config)# clock summer-time aaa recurring 12:10 4.6 12:10 8.6 70

4.3 clock summer-time recurring

Command: clock summer-time <word> recurring <HH:MM> <week> <day> <month> < HH:MM > <week> <day> <month> [<offset>]

no clock summer-time

Function: Configure the recurrent summer time range, the time in this range is summer time.

Parameter: <word> is the time zone name of summer time; <HH:MM> is the start time, the format is hour(from 0 to 23):minute(from 0 to 59); <week> is the week from 1 to 4, first or last; <day> is the week value, the value as "Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"; <month> is the month, the value as "Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"; <HH:MM> is the end time, the format is hour(from 0 to 23):minute(from 0 to 59); <week> is the week from 1 to 4, first or last; <day> is the week value, the value as "Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"; <month> is the month, the value as "Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec" <offset> is the time offset, the range from 1 to 1440, unit is minute, default value is 60 minutes.

Default: There is no summer time range.

Command Mode: Global Mode

Usage Guide: This command sets the start and end time for the recurrent summer time flexibly. When the system time reaches to the start time point of summer time, the clock is changed and increase <offset> value, the system enters summer time. When the system time reaches to the end time point of summer time, the clock is changed again, subtract <offset> value from system time, the system finishes summer time. There is no relation between the recurrent summer time to the year, the system clock will be changed when it reaches to the start and the end time point of summer time year after year. This command supports summer time of southern hemisphere.

Example: Configure summer time at 12:10 from the first Monday of april to the last

Saturday of augest year after year, offset value as 70 minutes, summer time is named as aaa.

Switch(config)#clock summer-time aaa recurring 12:10 1 mon apr 12:10 last sat aug 70