

- archive
- auto
- boot system
- by-commit
- commit
- confirm
- copy
- count-backup
- delete
- dir
- path
- restore
- rollback
- save
- show bootvar
- show boot-liscence
- show candidate-config
- show configuration changes
- show crypto certificates
- show licence
- show running-config
- show storage-devices
- show version
- time-period
- type

## archive

(no)

[no] archive

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## CONFIG

:

```
esr(config)# archive  
esr(config-archive)#
```

## auto

/ (time-period).

(no)

[no] auto

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CONFIG-ARCHIVE

```
:  
esr(config-archive)# auto
```

boot system

```
,  
  
boot system <IMAGE>
```

```
<IMAGE> - , :  
• image-1 - ;  
• image-2 - .
```

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```
:  
esr# boot system image-2
```

by-commit

```
(no)
```

```
[no] by-commit
```

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CONFIG-ARCHIVE

```
:  
esr(config-archive)# by-commit
```

## commit

```
( ) . RUNNING- CANDIDATE. , «confirm» , ( 600 , system config-confirm timeout).
```

commit

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ROOT

CHANGE-EXPIRED-PASSWORD

```
:  
esr# commit
```

## confirm

```
( 600 , system config-confirm timeout) «commit» ,
```

confirm

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ROOT

CHANGE-EXPIRED-PASSWORD

```
:  
esr# confirm
```

## copy

```
copy <SOURCE> <DESTINATION>
```

```
<SOURCE> - , :
```

- tftp://<ip>[:<port>]:<path> – TFTP-, :
  - <ip> – IP- TFTP-;
  - <port> – , TFTP-, IP- «#» «:»;
  - <path> – TFTP-.
- tftp://<ipv6>[%<interface>][<port>]:<path> – TFTP-, :
  - <ip6> – IPv6- TFTP-;
  - <interface> – link-local ;
  - <port> – , TFTP-, IPv6- '# ':( IPv6- «[]»);
  - <path> – TFTP-.
- ftp://[<user>:<password>]@<ip>[:<port>]:<path>
  - <ip> – IP- FTP-;
  - <user> – ( ip ftp client username, ip ftp client username);
  - <password> – ( ip ftp client password, ip ftp client password);
  - <port> – , TFTP-, IP- «#» «:»;
  - <path> – FTP-.
- ftp://[<user>:<password>]@<ipv6>[%<interface>][<port>]:<path>
  - <ip6> – IPv6- FTP-;
  - <interface> – link-local ;
  - <user> – ( ip ftp client username, ip ftp client username);
  - <password> – ( ip ftp client password, ip ftp client password);
  - <port> – , TFTP-, IPv6- '# ':( IPv6- «[]»);
  - <path> – FTP-.
- sftp://[<user>:<password>]@<ip>[:<port>]:<path>
  - <ip> – IP- FTP-;
  - <user> – ( ip sftp client username, ip sftp client username);
  - <password> – ( ip sftp client password, ip sftp client password);
  - <port> – , TFTP-, IP- «#» «:»;
  - <path> – FTP-.
- sftp://[<user>:<password>]@<ipv6>[%<interface>][<port>]:<path>
  - <ip6> – IPv6- FTP-;
  - <interface> – link-local ;
  - <user> – ( ip sftp client username, ip sftp client username);
  - <password> – ( ip sftp client password, ip sftp client password);
  - <port> – , TFTP-, IPv6- '# ':( IPv6- «[]»);
  - <path> – FTP-.
- scp://[<user>:<password>]@<ip>[:<port>]:<path>
  - <ip> – IP- ;
  - <user> – ( ip ssh client username, ip ssh client username);
  - <password> – ( ip ssh client password, ip ssh client password);
  - <port> – , TFTP-, IP- «#» «:»;
  - <path> – .
- scp://[<user>:<password>]@<ipv6>[%<interface>][<port>]:<path>
  - <ip6> – IPv6- ;
  - <interface> – link-local ;
  - <user> – ( ip ssh client username, ip ssh client username);
  - <password> – ( ip ssh client password, ip ssh client password);
  - <port> – , TFTP-, IPv6- '# ':( IPv6- «[]»);
  - <path> – .
- http://<ip>[:<port>]:<path> – HTTP-, :
  - <ip> – IP- HTTP-;
  - <port> – , HTTP-, IP- «#» «:»;
  - <path> – HTTP-.
- http://<ipv6>[%<interface>][<port>]:<path> – HTTP-, :
  - <ip6> – IPv6- HTTP-;
  - <interface> – link-local ;
  - <port> – , HTTP-, IPv6- '# ':( IPv6- «[]»);
  - <path> – TFTP-.
- https://[ca/<CA-FILE>][:server-crt/<SC-FILE>][:server-key/<SK-FILE>]@<ip>[:<port>]:<path> – HTTPS-, :
  - <CA-FILE> – ;
  - <SC-FILE> – ;
  - <SK-FILE> – ;
  - <ip> – IP- HTTP-;
  - <port> – , HTTPS-, IP- «#» «:»;
  - <path> – HTTP-.
- https://[ca/<CA-FILE>][:server-crt/<SC-FILE>][:server-key/<SK-FILE>]@<ipv6>[%<interface>][<port>]:<path> – HTTPS-, :
  - <ip6> – IPv6- HTTPS-;
  - <interface> – link-local ;
  - <port> – , HTTP-, IPv6- '# ':( IPv6- «[]»);
  - <path> – TFTP-.
- usb://usb\_name/:PATH
  - usb\_name – USB-. "show storage-devices" (. show storage-devices);
  - <path> – USB-.
- mmc://mmc\_name:/PATH ( ESR-10/12V/12VF/14VF)
  - mmc\_name – MMC-. "show storage-devices" (. show storage-devices);
  - <path> – MMC-.
- system:factory-config – ;

- system:default-config – () ;
- system:running-config – ;
- system:candidate-config – , «commit» ;
- system:firmware – . ;
- system:boot-1 – (SBI, bl1, x-loader).
- system:boot-2 – (u-boot, boot).
- flash:critlog/FILE – ;
- flash:syslog/FILE – , ;
- tmpsys:syslog/FILE – , ;
- flash:backup/FILE – ;
- flash:data/FILE – .

<DESTINATION> – , :

- tftp://<ip>[<port>]:<path> – TFTP-, :
  - <ip> – IP- TFTP-;
  - <port> – , TFTP-, IP- «#» «:»;
  - <path> – TFTP-.
- tftp://<ipv6>[%<interface>][<port>]:<path> – TFTP-, :
  - <ipv6> – IPv6- TFTP-;
  - <interface> – link-local ;
  - <port> – , TFTP-, IPv6- '# '!( IPv6- «[]»);
  - <path> – TFTP-.
- ftp://[<user>[:<password>]@]<ip>[<port>]:<path>
  - <ip> – IP- FTP-;
  - <user> – ( ip ftp client username, ip ftp client username);
  - <password> – ( ip ftp client password, ip ftp client password);
  - <port> – , TFTP-, IP- «#» «:»;
  - <path> – FTP-.
- ftp://[<user>[:<password>]@]<ipv6>[%<interface>][<port>]:<path>
  - <ipv6> – IPv6- FTP-;
  - <interface> – link-local ;
  - <user> – ( ip ftp client username, ip ftp client username);
  - <password> – ( ip ftp client password, ip ftp client password);
  - <port> – , TFTP-, IPv6- '# '!( IPv6- «[]»);
  - <path> – FTP-.
- sftp://[<user>[:<password>]@]<ip>[<port>]:<path>
  - <ip> – IP- FTP-;
  - <user> – ( ip sftp client username, ip sftp client username);
  - <password> – ( ip sftp client password, ip sftp client password);
  - <port> – , TFTP-, IP- «#» «:»;
  - <path> – FTP-.
- sftp://[<user>[:<password>]@]<ipv6>[%<interface>][<port>]:<path>
  - <ipv6> – IPv6- FTP-;
  - <interface> – link-local ;
  - <user> – ( ip sftp client username, ip sftp client username);
  - <password> – ( ip sftp client password, ip sftp client password);
  - <port> – , TFTP-, IPv6- '# '!( IPv6- «[]»);
  - <path> – FTP-.
- scp://[<user>:<password>]@<ip>[<port>]:<path>
  - <ip> – IP- ;
  - <user> – ( ip ssh client username, ip ssh client username);
  - <password> – ( ip ssh client password, ip ssh client password);
  - <port> – , TFTP-, IP- «#» «:»;
  - <path> – .
- scp://[<user>:<password>]@<ipv6>[%<interface>][<port>]:<path>
  - <ipv6> – IPv6- ;
  - <interface> – link-local ;
  - <user> – ( ip ssh client username, ip ssh client username);
  - <password> – ( ip ssh client password, ip ssh client password);
  - <port> – , TFTP-, IPv6- '# '!( IPv6- «[]»);
  - <path> – .
- usb://usb\_name:/PATH
  - usb\_name – USB-. "show storage-devices" (. show storage-devices);
  - <path> – USB-.
- mmc://mmc\_name:/PATH ( ESR-10/12V/12VF/14VF)
  - mmc\_name – MMC-. "show storage-devices" (. show storage-devices);
  - <path> – MMC-.
- system:candidate-config – , «commit» ;
- system:licence – ;
- system:boot-licence – ;
- system:firmware – . ;
- system:boot2 – (u-boot, x-loader);
- system:certificate/ca/ – ;
- system:certificate/dh/ – -;
- system:certificate/server\_key/ – OPENVPN-;
- system:certificate/server\_crt/ – OPENVPN-;
- certificate:client-key/FILE – OPENVPN-;
- certificate:client-crt/FILE – OPENVPN-;
- system:certificate/ta/ – -;

- system:certificate/crl/ – ;
- flash:data(FILE – . . . );

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```
esr# copy tftp://10.100.100.1/esr.cfg system:candidate-config
```

2

```
esr# copy tftp://10.100.100.1/crl.pem system:certificate/crl/crl.pem
```

## count-backup

(no) . . .

```
count-backup <NUM>
no count-backup
```

<NUM> – . . . [1..100].

1

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CONFIG-ARCHIVE

:

```
esr(config-archive)# count-backup 20
```

## delete

. . .

```
delete { <FILE> | licence | boot-licence}
```

<FILE> – , ( . . . ):

- flash:backup(FILE – . . . );
- flash:critlog(FILE – . . . );
- flash:data(FILE – . . . );
- flash:syslog(FILE – . . . , . . . );
- tmppsys:syslog(FILE – . . . , . . . );

- system:certificate/ca/ – ;
- system:certificate/dh/ – :-;
- system:certificate/server\_key/ – IPsec/OpenVPN ;
- system:certificate/server\_crt/ – IPsec/OpenVPN ;
- certificate:client-key(FILE – OPENVPN-;
- certificate:client-crt(FILE – OPENVPN-;
- system:certificate/ta/ – ;
- system:certificate/crl/ – .

licence – .

boot-licence – .

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ROOT

:

```
esr# delete system:certificate/dh/dh.key
```

dir

(USB/MM ).

```
dir { usb://<USB-device-name>/<PATH> | mmc://<MMC-device-name>/<PATH> | flash:backup/FILE | flash:data/FILE }
```

<USB-device-name> – USB-. show storage-devices usb, [show storage-devices](#).

<MMC-device-name> – MMC-. show storage-devices mmc, [show storage-devices](#).

- flash:backup/FILE – ;
- flash:data/FILE – ;

<PATH> – USB/MMC-.

flash:backup/FILE – ;

flash:data/FILE – ;

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ROOT

:

```
esr# dir mmc://EF28-D074
Name          Type      Size
-----
esr1000-1.4.0-build21.uboot    File     0.00    B
.Trash-1000        Directory 0.00    B
```

path

, . –

(no) .

```

path <PATH>
no path

<PATH> - tftp/ftp/sftp/scp :
  • tftp://<ip>[<port>]:<path> - TFTP-, :
    • <ip> - IP- TFTP-;
    • <port> - , TFTP-, IP- «#» «:»;
    • <path> - TFTP-.
  • tftp://<ipv6>[%<interface>][<port>]:<path> - TFTP-, :
    • <ipv6> - IPv6- TFTP-;
    • <interface> - link-local ;
    • <port> - , TFTP-, IPv6- '# ' ( IPv6- «[]»);
    • <path> - TFTP-.
  • ftp://[<user>[:<password>]@]<ip>[<port>]:<path>
    • <ip> - IP- FTP-;
    • <user> - ( ip ftp client username, ip ftp client username);
    • <password> - ( ip ftp client password, ip ftp client password);
    • <port> - , TFTP-, IP- «#» «:»;
    • <path> - FTP-.
  • ftp://[<user>[:<password>]@]<ipv6>[%<interface>][<port>]:<path>
    • <ipv6> - IPv6- FTP-;
    • <interface> - link-local ;
    • <user> - ( ip ftp client username, ip ftp client username);
    • <password> - ( ip ftp client password, ip ftp client username);
    • <port> - , TFTP-, IPv6- '# ' ( IPv6- «[]»);
    • <path> - FTP-.
  • sftp://[<user>:<password>]@<ip>[<port>]:<path>
    • <ip> - IP- FTP-;
    • <user> - ( ip sftp client username, ip sftp client username);
    • <password> - ( ip sftp client password, ip sftp client password);
    • <port> - , TFTP-, IP- «#» «:»;
    • <path> - FTP-.
  • sftp://[<user>:<password>]@<ipv6>[%<interface>][<port>]:<path>
    • <ipv6> - IPv6- FTP-;
    • <interface> - link-local ;
    • <user> - ( ip sftp client username, ip sftp client username);
    • <password> - ( ip sftp client password, ip sftp client password);
    • <port> - , TFTP-, IPv6- '# ' ( IPv6- «[]»);
    • <path> - FTP-.
  • scp://[<user>:<password>]@<ip>[<port>]:<path>
    • <ip> - IP- ;
    • <user> - ( ip ssh client username, ip ssh client username);
    • <password> - ( ip ssh client password, ip ssh client password);
    • <port> - , TFTP-, IP- «#» «:»;
    • <path> - .
  • scp://[<user>:<password>]@<ipv6>[%<interface>][<port>]:<path>
    • <ipv6> - IPv6- ;
    • <interface> - link-local ;
    • <user> - ( ip ssh client username, ip ssh client username);
    • <password> - ( ip ssh client password, ip ssh client password);
    • <port> - , TFTP-, IPv6- '# ' ( IPv6- «[]»);
    • <path> - .

```

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## CONFIG-ARCHIVE

:

```
esr(config-archive)# path tftp://10.10.10.1:/esr-1000/config
```

## restore

```
, . . . «confirm». «restore» .
```

```
restore
```

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ROOT

```
:  
esr# restore
```

rollback

```
CANDIDATE . «commit».
```

```
rollback
```

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ROOT

```
:  
esr# rollback
```

save

```
CANDIDATE .
```

```
save
```

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ROOT

```
:  
esr# save
```

Flash- .

show bootvar

```
:  
show bootvar
```

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ROOT

```
:  
esr# show bootvar  
Image Version Date Status After reboot  
---- ----- ----- ----- -----  
1 1.0.7 build 119[5cd22b8] date 22/12/2015 time Not Active  
18:00:47  
2 1.0.7 build 119[5cd22b8] date 22/12/2015 time Active *  
18:00:47
```

show boot-licence

```
:  
show boot-licence
```

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```

esr# show boot-licence
Licence information
-----
Name: Eltex
Version: 1.0
Type: ESR-1000
S/N: NP01000530
MAC: A8:F9:4B:AA:44:BB
Features:
  KSS - Kaspersky Security System

```

## show candidate-config

, («commit»).

```
show candidate-config [ <SECTION> ]
```

<SECTION> – :

- aaa – , ;
- access-list – ;
- bridges – ;
- channel-group – ;
- clock – NTP-;
- dhcp – DHCP-, Relay-;
- dual-homing – Dual Homing <sup>1</sup>;
- extended - ;
- hostname – ;
- interfaces [<IF>] – :
  - <IF> – , , .
- ip-address – IP-;
- ipv6 [<SUBSECTION>] – IPv6:
  - address – IPv6-;
  - dhcp [<SUBSECTION>] – IPv6 DHCP-;
  - client – IPv6 DHCP-;
    - relay – IPv6 DHCP Relay-;
    - server – IPv6 DHCP-;
  - routing [<SUBSECTION>] – IPv6-:
    - bfd – IPv6 BFD;
    - bgp – IPv6 BGP;
    - ospf – OSPFv3;
    - prefix-lists – IPv6 -;
    - static – .
  - vrrp – IPv6 VRRP-.
- dialplan – ;
- lldp – LLDP;
- mac-address-table – MAC- <sup>1</sup>;
- mdns – mDNS;
- mirroring – <sup>1</sup>;
- mpls – MPLS;
- mdns – mDNS;
- multiwan – WAN-;
- nat [<SUBSECTION>] – NAT:
  - source – Source NAT;
  - destination – Destination NAT;
  - alg – NAT.
- netflow – Netflow ;
- object-groups – IP- TCP/UDP-;
- port-security – Port Security <sup>1</sup>;
- qos – QoS;
- remote-access [<SUBSECTION>] – L2TP over IPsec PPTP-;
  - l2tp – L2TP over IPsec-;
  - pptp – PPTP-;
  - openvpn – OpenVPN-;
- remote-client – (SSH, Telnet, etc.);
- rmon – RMON;
- routing [<SUBSECTION>] – :
  - bfd – BFD;

- bgp – BGP;
- isis – IS-IS;
- key-chains – ;
- ospf – OSPF;
- prefix-list – -;
- rip – RIP;
- route-maps – ;
- static – ;
- tracking – Tracking-;
- security [<SUBSECTION>] – IPsec VPN Firewall;
  - ike – IKE;
  - ipsec – IPsec
  - zone – Firewall;
  - zone-pair – Firewall;
- sip – SIP;
  - profile – SIP-;
  - service – SIP-;
- sflow – sFlow ;
- snmp – SNMP-;
- spanning-tree – Spanning Tree <sup>1</sup> ;
- sla – IP SLA
- system – ;
- syslog – Syslog;
- tunnels [<SUBSECTION>] – :
  - gre – GRE-;
  - ip4ip4 – IPv4 over IPv4-;
  - l2tp – L2TP-;
  - l2tpv3 – L2TPv3-;
  - lt – ;
  - softgre – SoftGRE- <sup>1</sup> ;
  - vti – VTI-;
  - pptp – PPTP-;
  - pppoe – PPPoE-;
  - l2tp – L2TP- ;
  - openvpn – OPENVPN-;
- vlans – VLAN;
- voice – ;
- vrf – VRF;
- vrrp – VRRP-;
- wisla – wiSLA;
- wireless-controller – Wi-Fi ;
- zabbix – Zabbix .

---

<sup>1</sup> ESR-1000

```
esr# show candidate-config
ntp enable
ntp broadcast-client enable
syslog max-files 3
syslog file-size 512
syslog file default info
vlan 2
exit
security zone trusted
exit
security zone untrusted
exit
object-group service telnet
  port-range 23
exit
object-group service ssh
  port-range 22
exit
object-group service dhcp_server
  port-range 67
exit More? Enter - next line; Space - next page; Q - quit; R - show the rest.
```

## show configuration changes

```
show configuration changes [<CONFIG> < CONFIG>]
```

```
<CONFIG> - . :
```

- candidate-config;
- running-config;
- factory-config;
- default-config.

```
<CONFIG>  running-config candidate-config.
```

```
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```

```
ROOT
```

```
:
```

```
esr(config-)# show configuration changes
+ interface gigabitethernet 1/0/1.100
+   ip firewall disable
+   ip address 10.54.22.1/24
+ exit
```

## show crypto certificates

```
show crypto certificates [ <CERTIFICATE-TYPE> ]
```

```
<CERTIFICATE-TYPE> - , :
```

- ca - ;
- crl - ;
- dh - -;
- server-crt - ;
- server-key - ;
- client-crt - ;
- client-key - ;
- ta - HMAC-.

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ROOT

:

```
esr# show crypto certificates
Type          Total
-----
ca            3
dh            1
server key    2
server crt    1
ta            1
crl           1
```

show licence

show licence

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:

```
esr# show licence
Licence information
-----
Name: X-Telecom
Version: 1.0
Type: ESR-1000
S/N: NP01000046
MAC: A8:F9:4B:AA:03:20
Features:
  DHCP - Dynamic Host Configuration Protocol
  IDS - Empty description
  SWUTIL - View interface's utilization
```

## show running-config

```
show running-config [<SECTION>]
```

<SECTION> – , [show candidate-config](#).

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:

```
esr# show running-config syslog
syslog max-files 3
syslog file-size 512
syslog file default info
syslog console info
```

## show storage-devices

(USB/MMC ).

```
show storage-devices { usb | mmc }
```

usb – USB- .

mmc – SD/MMC .

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:

```
esr# show storage-devices mmc
Name          Total, MB   Used, MB   Free, MB
-----        -----      -----      -----
EF28-D074    99.79       72.64      27.15
```

## show version

```
show version
```

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:

```
esr# show version
Boot version:
  1.0.7.16 (date 18/11/2015 time 13:40:59)
SW version:
  1.0.7 build 17[d9bdbda] (date 21/11/2015 time 18:06:41)
HW version:
  1v7
```

time-period

(no) .

```
time-period <TIME>
no time-period
```

<TIME> - , [1..35791394].

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CONFIG-ARCHIVE

:

```
esr(config-archive)# time-period 1440
```

type

(no) .

```
type <TYPE>
no type
```

<TYPE> - . :

- local – flash:backup/ "config\_YYYYMMDD\_HHMMSS;" :
  - YYYY – , ;
  - MM – , ;
  - DD – , ;
  - HH – , ;
  - MM – , ;
  - SS – , .
- remote – ;
- both – flash:backup .

remote

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#### CONFIG-ARCHIVE

:

```
esr(config-archive)# type both
```