

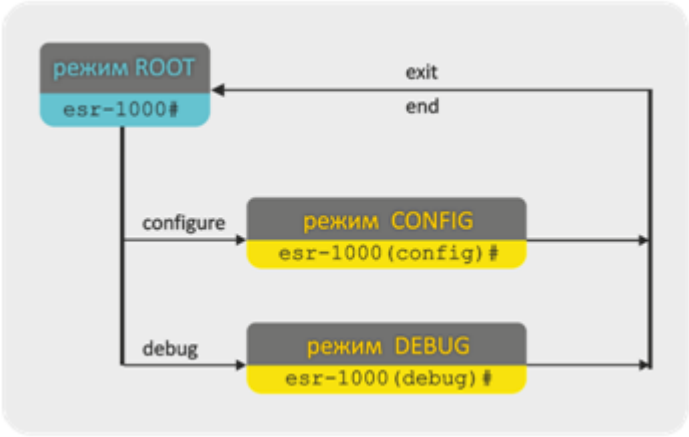
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ESR ().

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(ROOT)		esr> esr#	exit end
(CONFIG)	configure	esr(config)#	
(DEBUG)	debug	esr(debug)#	



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(ROOT) :

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(ROOT) :

– (CONFIG);

– (DEBUG).

ESR **CONFIG.** (ROOT). .

(ROOT) :

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esr> enable
esr# configure
esr(config)#

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ESR :

- ;
 - ;
 - ;
 - QoS;
 - Spanning Tree;
 - VLAN;
 - ;
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 - , 3.
- 3 -

	1		
(CONFIG)	configure	esr(config)#	ROOT
GigabitEthernet (CONFIG-GI)	interface gigabitethernet <PORT>	esr(config-if-gi)#	CONFIG
TengigabitEthernet (CONFIG-TE)	interface tengigabitethernet <PORT>	esr(config-if-te)#	CONFIG
FoutygigabitEthernet (CONFIG-FO)	interface fortygigabitethernet <PORT>	esr(config-if-fo)#	CONFIG
(CONFIG-SUBIF)	interface gigabitethernet <PORT>. <VLAN> interface tengigabitethernet <PORT>. <VLAN> interface port-channel <CH>.<VLAN>	esr(config-subif)#	CONFIG
(CONFIG-QINQ-IF)	interface gigabitethernet <PORT>. <VLAN>.<VLAN> interface tengigabitethernet <PORT>. <VLAN>.<VLAN> interface port-channel <CH>.<VLAN>. <VLAN>	esr(config-qinq-if)#	CONFIG
2 (CONFIG-SERIAL)	interface serial <PORT>	esr(config-serial)#	CONFIG
(CONFIG-LOOPBACK)	interface loopback <PORT>	esr(config-loopback)#	CONFIG
E1- (CONFIG-E1)	interface e1 <PORT>	esr(config-e1)#	CONFIG
E1- (CONFIG-MULTILINK)	interface multilink <PORT>	esr(config-multilink)#	CONFIG
FXO- (CONFIG-VOICE-PORT-FXO)	interface voice-port <NUM>	esr(config-voice-port-fxo)#	CONFIG
FXS- (CONFIG-VOICE-PORT-FXS)	interface voice-port <NUM>	esr(config-voice-port-fxs)#	CONFIG

VTI (CONFIG-VTI)	tunnel vti <VTI>	esr(config-vti)#	CONFIG
2 (CONFIG-LINE-AUX)	line aux <NUM>	esr(config-line-aux)#	CONFIG
L2TPv3- (CONFIG-L2TPV3)	tunnel l2tpv3 <L2TPV3>	esr(config-l2tpv3)#	CONFIG
GRE- (CONFIG-GRE)	tunnel gre <GRE>	esr(config-gre)#	CONFIG
SoftGRE- (CONFIG-SOFTGRE)	tunnel softgre <SOFTGRE>	esr(config-softgre)#	CONFIG
 (CONFIG-LT)	tunnel lt <LT>	esr(config-lt)#	CONFIG
L2- (CONFIG-SUBTUNNEL)	tunnel softgre <GRE>.<VLAN>	esr(config-subtunnel)#	CONFIG
IPv4-over-IPv4 (CONFIG-IP4IP4)	tunnel ip4ip4 <IP4IP4>	esr(config-ip4ip4)#	CONFIG
 (CONFIG-BRIDGE)	bridge <BRIDGE>	esr(config-bridge)#	CONFIG
VLAN (CONFIG-VLAN)	vlan <VLAN>	esr(config-vlan)#	CONFIG
VLAN LLDPDU- (CONFIG-NET-POLICY)	network-policy <NAME>	esr(config-net-policy)	CONFIG
DHCP- (CONFIG-DHCP-SERVER)	ip dhcp-server pool <NAME>	esr(config-dhcp-server)#	CONFIG
DHCP 60 (CONFIG-DHCP-VENDOR-ID)	ip dhcp-server vendor-class-id <NAME>	esr(config-dhcp-vendor-id)#	CONFIG
DHCP- (CONFIG-IPV6-DHCP-SERVER)	ipv6 dhcp-server pool <NAME>	esr(config-ipv6-dhcp-server)#	CONFIG
DHCP 60 (CONFIG-IPV6-DHCP-VENDOR-ID)	ipv6 dhcp-server vendor-class-id <NAME>	esr(config-dhcp-vendor-id)#	CONFIG
DHCP- (CONFIG-DHCP-SERVER-FAILOVER)	ip dhcp-server failover [vrf <VRF>]	esr(config-dhcp-server-failover)#	CONFIG
 (CONFIG-OBJECT-GROUP-APPLICATION)	object-group application <NAME>	esr(config-object-group-application)#	CONFIG
IP- (CONFIG-OBJECT-GROUP-NETWORK)	object-group network <NAME>	esr(config-object-group-network)#	CONFIG
IP- TCP/UDP- (CONFIG-OBJECT-GROUP-ADDRESS-PORT)	object-group address-port <NAME>	esr(config-object-group-address-port)#	CONFIG
TCP/UDP- (CONFIG-OBJECT-GROUP-SERVICE)	object-group service <NAME>	esr(config-object-group-service)#	CONFIG
URL (CONFIG-OBJECT-GROUP-URL)	object-group url <NAME>	esr(config-object-group-url)#	CONFIG
 (CONFIG-OBJECT-GROUP-CONTENT-FILTER)	object-group content-filter <NAME>	esr(config-object-group-content-filter)#	CONFIG

Kaspersky Laboratory (CONFIG-OBJECT-GROUP-CF-KASPERSKY)	vendor <VENDOR>	esr(config-object-group-cf-kaspersky)#	CONFIG-OBJECT-GROUP-CONTENT-FILTER
(CONFIG-OBJECT-GROUP-MAIL)	object-group email <NAME>	esr(config-object-group-email)#	CONFIG
XAUTH (CONFIG-ACCESS-PROFILE)	access profile <NAME>	esr(config-access-profile)#	CONFIG
IP- (CONFIG-POOL)	address-assignment pool <NAME>	esr(config-pool)#	CONFIG
IKE (CONFIG-IKE-GATEWAY)	security ike gateway <NAME>	esr(config-ike-gw)#	CONFIG
IKE (CONFIG-IKE-POLICY)	security ike policy <NAME>	esr(config-ike-policy)#	CONFIG
IKE (CONFIG-IKE-PROPOSAL)	security ike proposal <NAME>	esr(config-ike-proposal)#	CONFIG
IPsec (CONFIG-IPSEC-POLICY)	security ipsec policy <NAME>	esr(config-ipsec-policy)#	CONFIG
IPsec (CONFIG-IPSEC-PROPOSAL)	security ipsec proposal <NAME>	esr(config-ipsec-proposal)#	CONFIG
VPN IPsec (CONFIG-IPSEC-VPN)	security ipsec vpn <NAME>	esr(config-ipsec-vpn)#	CONFIG
(CONFIG-ACL)	ip access-list extended <NAME>	esr(config-acl)#	CONFIG
(CONFIG-ACL-RULE)	rule <ORDER>	esr(config-acl-rule)#	CONFIG-ACL
(CONFIG-ZONE)	security zone <NAME>	esr(config-zone)#	CONFIG
(CONFIG-ZONE-PAIR)	security zone-pair <FROM> <TO>	esr(config-zone-pair)#	CONFIG
(CONFIG-ZONE-PAIR-RULE)	rule <ORDER>	esr(config-zone-rule)#	CONFIG-ZONE-PAIR
(CONFIG-DNAT)	nat destination	esr(config-dnat)#	CONFIG
IP- TCP/UDP- DNAT (CONFIG-DNAT-POOL)	pool <NAME>	esr(config-dnat-pool)#	CONFIG-DNAT
DNAT (CONFIG-DNAT-RULESET)	ruleset <NAME>	esr(config-dnat-ruleset)#	CONFIG-DNAT
DNAT (CONFIG-DNAT-RULE)	rule <ORDER>	esr(config-dnat-rule)#	CONFIG-DNAT-RULESET
(CONFIG-SNAT)	nat source	esr(config-snat)#	CONFIG
IP- TCP/UDP- SNAT (CONFIG-SNAT-POOL)	pool <NAME>	esr(config-snat-pool)#	CONFIG-SNAT
SNAT (CONFIG-SNAT-RULESET)	ruleset <NAME>	esr(config-snat-ruleset)#	CONFIG-SNAT


SNAT (CONFIG-SNAT-RULE)	rule <ORDER>	esr(config-snat-rule)#	CONFIG-SNAT-RULESET
(CONFIG-USER)	username <NAME>	esr(config-user)#	CONFIG
(CONFIG-LINE-CONSOLE)	line console	esr(config-line-console)#	CONFIG
(CONFIG-LINE-TELNET)	line telnet	esr(config-line-telnet)#	CONFIG
(CONFIG-LINE-SSH)	line ssh	esr(config-line-ssh)#	CONFIG
TACACS- (CONFIG-TACACS-SERVER)	tacacs-server host <ADDR>	esr(config-tacacs-server)#	CONFIG
RADIUS- (CONFIG-RADIUS-SERVER)	radius-server host <ADDR>	esr(config-radius-server)#	CONFIG
RADIUS- (CONFIG-RADIUS-SERVER-PROFILE)	aaa radius-profile <NAME>	esr(config-aaa-radius-profile)#	CONFIG
DAS- (CONFIG-DAS-SERVER)	das-server <NAME>	esr(config-das-server)#	CONFIG
DAS- (CONFIG-DAS-SERVER-PROFILE)	aaa das-profile <NAME>	esr(config-aaa-das-profile)#	CONFIG
LDAP- (CONFIG-LDAP-SERVER)	ldap-server host <ADDR>	esr(config-ldap-server)#	CONFIG
PPTP (CONFIG-PPTP-SERVER)	remote-access pptp <NAME>	esr(config-pptp-server)#	CONFIG
PPTP (CONFIG-PPTP-USER)	username <NAME>	esr(config-pptp-user)#	CONFIG-PPTP
L2TP (CONFIG-L2TP-SERVER)	remote-access l2tp <NAME>	esr(config-l2tp-server)#	CONFIG
L2TP (CONFIG-L2TP-USER)	username <NAME>	esr(config-l2tp-user)#	CONFIG-L2TP-SERVER
OpenVPN (CONFIG-OPENVPN-SERVER)	remote-access openvpn <NAME>	esr(config-openvpn-server)#	CONFIG
L2TP (CONFIG-OPENVPN-USER)	username <NAME>	esr(config-openvpn-user)#	CONFIG-OPENVPN-SERVER
PPTP (CONFIG-PPTP)	tunnel pptp <PPTP-ID>	esr(config-pptp)#	CONFIG
PPPOE (CONFIG-PPPOE)	tunnel pppoe <PPPOE-ID>	esr(config-pppoe)#	CONFIG
L2TP (CONFIG-L2TP)	tunnel l2tp <L2TP-ID>	esr(config-l2tp)#	CONFIG
OpenVPN (CONFIG-OPENVPN)	tunnel openvpn <OPENVPN-ID>	esr(config-openvpn)#	CONFIG
SNMP- (CONFIG-SNMP-USER)	snmp-server <NAME>	esr(config-snmp-user)#	CONFIG


NTP- (CONFIG-NTP)	ntp server <ADDR> ntp peer <ADDR>	esr(config-ntp)#	CONFIG
BGP- (CONFIG-BGP)	router bgp <AS>	esr(config-bgp)#	CONFIG
BGP- vrf (CONFIG-BGP-VRF)	vrf <VRF>	esr(config-bgp-vrf)#	CONFIG-BGP
IPv4/IPv6 BGP- (CONFIG-BGP-FAMILY)	address-family { ipv4 ipv6 } unicast	esr(config-bgp-af)#	CONFIG-BGP
IPv4/IPv6 BGP- vrf (CONFIG-BGP-VRF-FAMILY)	address-family { ipv4 ipv6 } unicast	esr(config-bgp-vrf-af)#	CONFIG-BGP-VRF
BGP- (CONFIG-BGP-GROUP)	peer-group <NAME>	esr(config-bgp-group)#	CONFIG-BGP
BGP- vrf (CONFIG-BGP-VRF-GROUP)	peer-group <NAME>	esr(config-bgp-vrf-group)#	CONFIG-BGP-VRF
BGP- (CONFIG-BGP-NEIGHBOR)	neighbor { <ADDR> <IPv6-ADDR> }	esr(config-bgp-neighbor)#	CONFIG-BGP
BGP- vrf (CONFIG-BGP-VRF-NEIGHBOR)	neighbor { <ADDR> <IPv6-ADDR> }	esr(config-bgp-vrf-neighbor)#	CONFIG-BGP-VRF
IPv4/IPv6 BGP- (CONFIG-BGP-NEIGHBOR-FAMILY)	address-family { ipv4 ipv6 vpnv4 } unicast	esr(config-bgp-neighbor-af)#	CONFIG-BGP-NEIGHBOR
IPv4/IPv6 BGP- vrf (CONFIG-BGP-NEIGHBOR-FAMILY)	address-family { ipv4 ipv6 vpnv4 } unicast	esr(config-bgp-neighbor-af-vrf) #	CONFIG-BGP-VRF-NEIGHBOR
 (CONFIG-PL)	ip prefix-list <NAME>	esr(config-pl)#	CONFIG
 (CONFIG-IPv6-PL)	ipv6 prefix-list <NAME>	esr(config-ipv6-pl)#	CONFIG
 (CONFIG-ROUTE-MAP)	route-map <NAME>	esr(config-route-map)#	CONFIG
 (CONFIG-ROUTE-MAP-RULE)	rule <ORDER>	esr(config-route-map-rule)#	CONFIG-ROUTE-MAP
RIP- (CONFIG-RIP)	router rip	esr(config-rip)#	CONFIG
RIPNG- (CONFIG-RIPNG)	ipv6 router rip	esr(config-ripng)#	CONFIG
IS-IS- (CONFIG-ISIS)	router isis <ID>	esr(config-isis)#	CONFIG
OSPF- (CONFIG-OSPF)	router ospf <ID>	esr(config-ospf)#	CONFIG
OSPF- (CONFIG-OSPF-AREA)	area <ID>	esr(config-ospf-area)#	CONFIG-OSPF
OSPF (CONFIG-OSPF-VLINK)	virtual-link <ID>	esr(config-ospf-vlink)#	CONFIG-OSPF-AREA
OSPFv3- (CONFIG-OSPFV3)	ipv6 router ospf <ID>	esr(config-ipv6-ospf)#	CONFIG








OSPFv3- (CONFIG-OSPFV3- AREA)	area <ID>	esr(config-ipv6-ospf-area)#	CONFIG-OSPFV3
OSPFv3 (CONFIG-OSPFV3-VLINK)	virtual-link <ID>	esr(config-ipv6-ospf-vlink)#	CONFIG-OSPFV3-AREA
ISIS- (CONFIG-ISIS)	router isis <ID>	esr(config-isis)#	CONFIG
(CONFIG-KEYCHAIN)	key-chain <KEYCHAIN>	esr(config-keychain)#	CONFIG
(CONFIG-KEYCHAIN-KEY)	key <ID>	esr(config-keychain-key)#	CONFIG-KEYCHAIN
MSTP (CONFIG-MST)	spanning-tree mst configuration	esr(config-mst)#	CONFIG
WAN (CONFIG-WAN-RULE)	wan load-balance rule <ID>	esr(config-wan-rule)#	CONFIG
WAN (IPv6) (CONFIG-IPV6-WAN-RULE)	ipv6 wan load-balance rule <ID>	esr(config-ipv6-wan-rule)#	CONFIG
target- (CONFIG-TARGET-LIST)	wan load-balance target-list <NAME>	esr(config-target-list)#	CONFIG
target- (IPv6) (CONFIG-IPV6-TARGET-LIST)	ipv6 wan load-balance target-list <NAME>	esr(config-ipv6-target-list)#	CONFIG
target (CONFIG-WAN-TARGET)	target <ID>	esr(config-wan-target)#	CONFIG-TARGET-LIST
target (IPv6) (CONFIG-IPV6-WAN-TARGET)	target <ID>	esr(config-ipv6-wan-target)#	CONFIG-IPV6-TARGET-LIST
(CONFIG-TRACK)	track <ID>	esr(config-track)#	CONFIG
WiFi Controller (CONFIG-WIRELESS)	wireless-controller	esr(config-wireless)#	CONFIG
VRF (CONFIG-VRF)	ip vrf <NAME>	esr(config-vrf)#	CONFIG
QoS (CONFIG-POLICY-MAP)	policy-map <NAME>	esr(config-policy-map)#	CONFIG
QoS (CONFIG-CLASS-MAP)	class-map <NAME>	esr(config-class-map)#	CONFIG
QoS (CONFIG-POLICY-MAP-CLASS)	class <NAME>	esr(config-class-policy-map)#	CONFIG
PPP- (CONFIG-PPP-USER)	ppp chap username <NAME>	esr(config-ppp-user)#	CONFIG-E1
	ppp chap username <NAME>		CONFIG-MULTILINK
	user <NAME>		CONFIG-CELLULAR-PROFILE
	user <NAME>		CONFIG-ACCESS-PROFILE
	username <NAME>		CONFIG-L2TP-SERVER
	username <NAME>		CONFIG-PPTP-SERVER
(CONFIG-ARCHIVE)	archive	esr(config-archive)#	CONFIG

Netflow (CONFIG-NETFLOW-HOST)	netflow collector <ADDR>	esr(config-netflow-host)#	CONFIG
sFlow (CONFIG-SFLOW-HOST)	sflow collector <ADDR>	esr(config-sflow-host)#	CONFIG
SNMP (CONFIG-SNMP-HOST)	snmp-server host <ADDR>	esr(config-snmp-host)#	CONFIG
(CHANGE-EXPIRED-PASSWORD)	-	esr(change-expired-password) #	-
http- (CONFIG-PROFILE)	ip http profile <NAME>	esr(config-profile)	CONFIG
MPLS (CONFIG-MPLS)	mpls	esr(config-mpls)#	CONFIG
LDP (CONFIG-LDP)	ldp	esr(config-ldp)#	CONFIG
IPv4 LDP (CONFIG-LDP-AF-IPV4)	address-family ipv4	esr(config-ldp-af-ipv4)#	CONFIG-LDP
LDP-unicast- (CONFIG-LDP-NEIGH)	neighbor <ADDR>	esr(config-ldp-neig)#	CONFIG-LDP
IPv4 LDP ip- (CONFIG-LDP-AF-IPV4-IF)	interface <IF>	esr(config-ldp-af-ipv4-if)#	CONFIG-LDP-AF-IPV4
L2-MPLS- (CONFIG-L2VPN)	l2vpn	esr(config-l2vpn)#	CONFIG-MPLS
L2-MPLS- (CONFIG-L2VPN-EOMPLS)	vpls <NAME> p2p <NAME>	esr(config-l2vpn-vpls)# esr(config-l2vpn-p2p)#	CONFIG-L2VPN
PW-class (pseudo-wire) (CONFIG-L2VPN-PW-CLASS)	pw-class <WORD>	esr(config-l2vpn-pw-class)#	CONFIG-L2VPN
pseudo-wire L2-MPLS- (CONFIG-L2VPN-PW)	pw <PW_ID> <LSR_ID> [<NEIGH_ADDR>]	esr(config-l2vpn-pw)#	CONFIG-L2VPN-EOMPLS
BGP auto-discovery and singnaling (CONFIG-AUTODISCOVERY-BGP)	autodiscovery bgp	esr(config-bgp)#	CONFIG-L2VPN-EOMPLS
IPS/IDS (CONFIG-IPS-POLICY)	security ips policy <NAME>	esr(config-ips-policy)#	CONFIG
IPS/IDS (CONFIG-IPS-VENDOR)	vendor <VENDOR>	esr(config-ips-vendor)#	CONFIG-IPS-POLICY
IPS/IDS (CONFIG-IPS-VENDOR-CATEGORY)	category <CATEGORY>	esr(config-ips-vendor- category)#	CONFIG-IPS-VENDOR
IPS/IDS (CONFIG-IPS)	security ips	esr(config-ips)#	CONFIG
IPS/IDS (CONFIG-CONTENT-PROVIDER)	content-provider	esr(config-content-provider)#	CONFIG
IPS/IDS (CONFIG-IPS-AUTO-UPGRADE)	auto-upgrade	esr(config-ips-auto-upgrade)#	CONFIG-IPS
IPS/IDS (CONFIG-IPS-UPGRADE-USER-SERVER)	user-server <WORD>	esr(config-ips-upgrade-user- server)#	CONFIG-IPS-AUTO-UPGRADE

IPS/IDS (CONFIG-IPS-CATEGORY)	security ips-category user-defined <CATEGORY_NAME>	esr(config-ips-category)#	CONFIG
IPS/IDS (CONFIG-IPS-CATEGORY-RULE)	rule <ORDER>	esr(config-ips-category-rule)#	CONFIG-IPS-CATEGORY
IPS/IDS (CONFIG-IPS-CATEGORY-RULE-ADVANCED)	rule-advanced <ORDER>	esr(config-ips-category-rule-advanced)#	CONFIG-IPS-CATEGORY
zabbix-agent (CONFIG-ZABBIX-AGENT)	zabbix-agent	esr(config-zabbix-agent)#	CONFIG
zabbix-proxy (CONFIG-ZABBIX-PROXY)	zabbix-proxy	esr(config-zabbix-proxy)#	CONFIG
« » CONFIG-ANTISPAM-PROFILE	security antispam profile <NAME>	esr(config-antispam-profile)#	CONFIG
« » CONFIG-ANTISPAM-PROFILE-RULE	rule <ORDER>	esr(config-antispam-profile-rule)#	CONFIG
CONFIG-MAILSERVER-DOMAIN	mailserver domain <NAME>	esr(config-mailserver-domain) #	CONFIG
CONFIG-MAILSERVER	mailserver	esr(config-mailserver)#	CONFIG
syslog- CONFIG-SYSLOG-FILE	syslog file { flash:syslog/<NAME> tmpsys:syslog/<NAME> }	(config-syslog-file)	CONFIG
syslog- CONFIG-SYSLOG-HOST	syslog host <HOSTNAME>	(config-syslog-host)	CONFIG
tftp- CONFIG-TFTP-SERVER	ip tftp server vrf <VRF>	(config-tftp-server)	CONFIG

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	<p><UNIT>/<SLOT>/<PORT>.</p> <ul style="list-style-type: none">• <UNIT> – ,• <SLOT> – 0 ,• <PORT> – .
1 /	<p>gigabitethernet <UNIT>/<SLOT>/<PORT></p> <p>: gigabitethernet 1/0/12</p> <div> , gi1/0/12.</div>

10 /	<p>tengigabitethernet <UNIT>/<SLOT>/<PORT></p> <p>: tengigabitethernet 1/0/2</p> <div>  , te1/0/2. </div>
40 /c	<p>fortygigabitethernet <UNIT>/<SLOT>/<PORT></p> <p>: fortygigabitethernet 1/0/2</p> <div>  , fo1/0/2. </div>
	<p>:</p> <p>port-channel <CHANNEL_ID></p> <p>: port-channel 6</p> <div>  , , po1. </div>
	<p>(VLAN) , .</p> <p>:</p> <p>gigabitethernet 1/0/12.100</p> <p>tengigabitethernet 1/0/2.123</p> <p>port-channel 1.6</p> <div>  [1..4094]. </div> <div>  c ESR-1000/1200/1500/1511/1700. </div>
Q-in-Q	<p>Q-in-Q , VLAN VLAN, .</p> <p>:</p> <p>gigabitethernet 1/0/12.100.10</p> <p>tengigabitethernet 1/0/2.45.12</p> <p>port-channel 1.6.34</p> <div>  VLAN [1..4094]. </div> <div>  c ESR-1000/1200/1500/1511/1700. </div>
E1-	<p>E1- .</p> <p>E1- < UNIT>/< SLOT>/< STREAM> ,</p> <ul style="list-style-type: none"> • <UNIT> – [1..1], • <SLOT> – E1- [0..12], • <STREAM> – E1- [1..1]. <p>: e1 1/0/1</p>

E1-	E1- : multilink <CHANNEL_ID> : multilink 3
	: : loopback 4 bridge 60 service-port 1
	. E1- < UNIT>/< SLOT>/< STREAM>, • <UNIT> – [1..1], • <SLOT> – 0 , • <PORT> – . : serial 1/0/1
USB-	USB- : modem <MODEM-NUM> : modem 1
FXS/FXO-	FXS/FXO- : interface voice-port <NUM> : voice-port 1



1. . unit 1.
2. . unit 1.
3. . «-».

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interface gigabitethernet 1/0/1, gigabitethernet 1/0/5
interface tengigabitethernet 1/0/1-2
interface fortygigabitethernet 1/0/1-2
interface gil/0/1-3,gil/0/7,tel/0/1,fo1/0/1
```

L2TP-	L2TP- : l2tp <L2TP_ID> : l2tp 1
L2TPv3-	L2TPv3- : l2tpv3 <L2TPV3_ID> : l2tpv3 1

GRE-	GRE- : gre <GRE_ID> : gre 1
GRE-	GRE- , VLAN : gre <GRE_ID>.<VLAN_ID> : gre 1.200
SoftGRE-	SoftGRE- , , VLAN ID : softgre <GRE_ID>[.<VLAN>] : softgre 1, softgre 1.10
IPv4-over-IPv4-	IPv4-over-IPv4- : ip4ip4 <IPIP_ID> : ip4ip4 1
IPsec-	IPsec- : vti <VTI_ID> : vti 1
(VRF)	: lt <LT_ID> : lt 1
PPPoE-	PPPoE- : pppoe <PPPoE_ID> : pppoe 1
PPTP-	PPPTP- : pptp <PPTP_ID> : pptp 1



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