

ESR

:

- .
- .
- IGP EGP
- IGP EGP

RIB (Routing Information Base) – , , : , (OSPF, BGP, RIP) directly connected. (FIB – forwarding information base).

RIB () – RIB, , , (network, redistribute) RIB () RIB (static route, directly connected).

:

- (EGP), .
- (IGP), .

IGP	EGP
RIP	eBGP
OSPF	
iBGP	

RIB .

IGP EGP .

.

RIB :

-
- Redistribute
- Network

.

, direct , (OSPF RIP);
, IGP EGP.

Redistribute

, direct connected route-map.

```
: esr(config-ospf)# redistribute bgp 100 - , BGP 100.
```

Network

```
 , RIB .
```

```
: esr(config-ospf-area)# network 10.0.0.0/8
```

-
- :
- Route-map (in)
- Prefix-list (in)
- Route-map (in) + Prefix-list (in)
- Redistribute + route-map

```
 .  
 , , , .
```

Route-map (in)

```
 , . , route-map. , route-map, . , (rule) : action permit.
```

```
: esr(config-ospf)# route-map <RM_NAME> in
```

Prefix-list (in)

```
 , . , prefix-list. prefix-list .
```

```
: esr(config-ospf)# prefix-list <PL_NAME> in
```

Route-map (in) + Prefix-list (in)

```
 route-map prefix-list , . , .
```

Redistribute + route-map

```
 redistribute route-map, RIB, route-map.
```

```
: redistribute bgp 100 route-map <RM_NAME> - BGP 100, route-map <RM_NAME>.
```

```
 , RIB , .
```

```
IGP EGP ( ):
```

- IGP , , IGP, . , , RIB , .
- EGP , . , .

IGP.

```
OSPF RIP , RIB network redistribute, ( ) !
```

```
iBGP RIB .
```

```
:
```

- Route-map (out)
- Prefix-list (out)
- Route-map (out) + Prefix-list (out)

RIB .

Route-map (out)

, : . route-map, route-map IGP, . , (rule) : action deny.

: *esr(config-ospf)# route-map <RM_NAME> out*

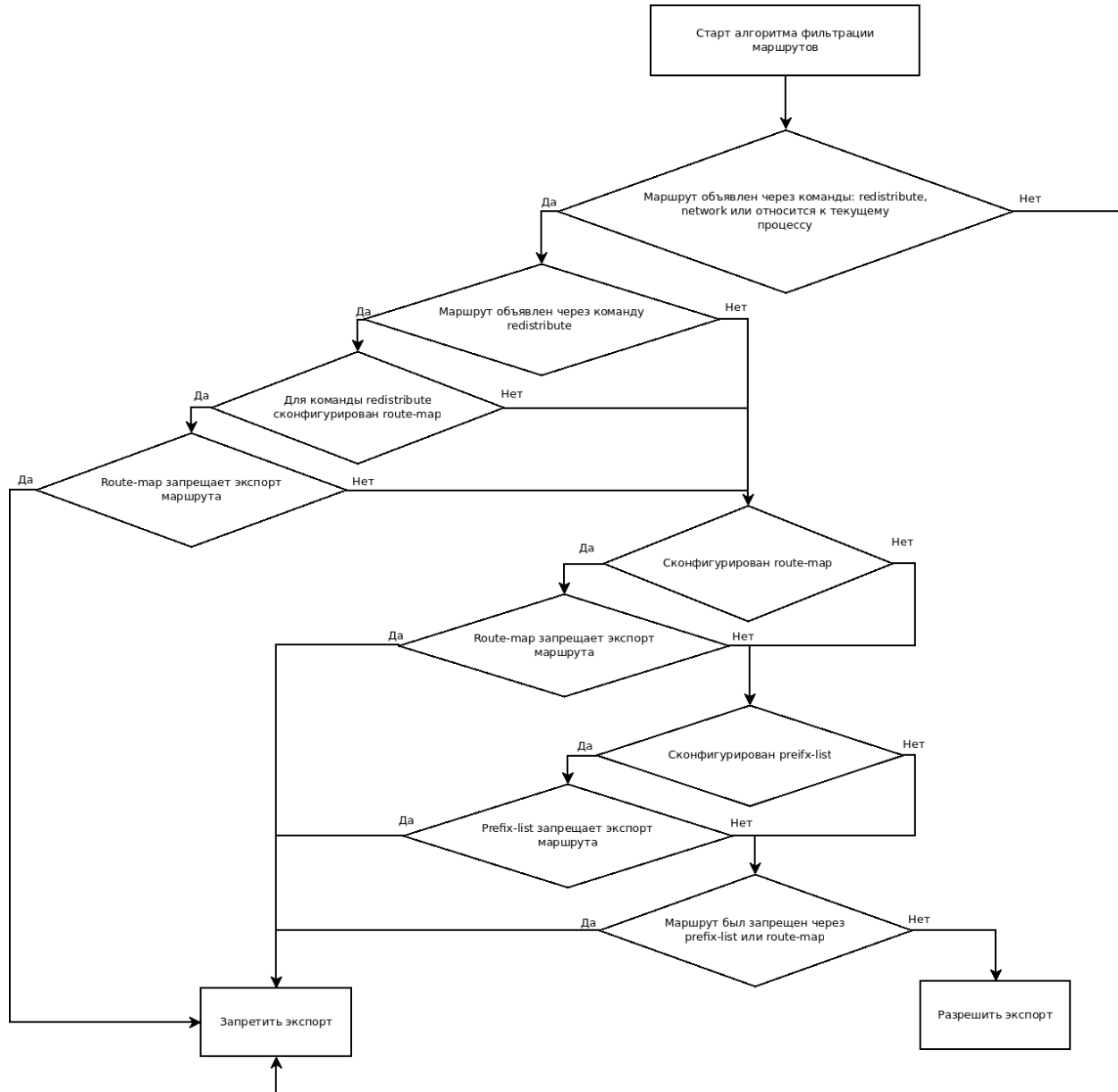
Prefix-list (out)

, : . prefix-list, prefix-list IGP, .

: *esr(config-ospf)# prefix-list <PL_NAME> out*

Route-map (out) + Prefix-list (out)

route-map prefix-list . , .



1 – IGP (OSPF, RIP, iBGP)

EGP.

:

- Route-map (out)
- Prefix-list (out)
- Route-map (out) + Prefix-list (out)

.

Route-map (out)

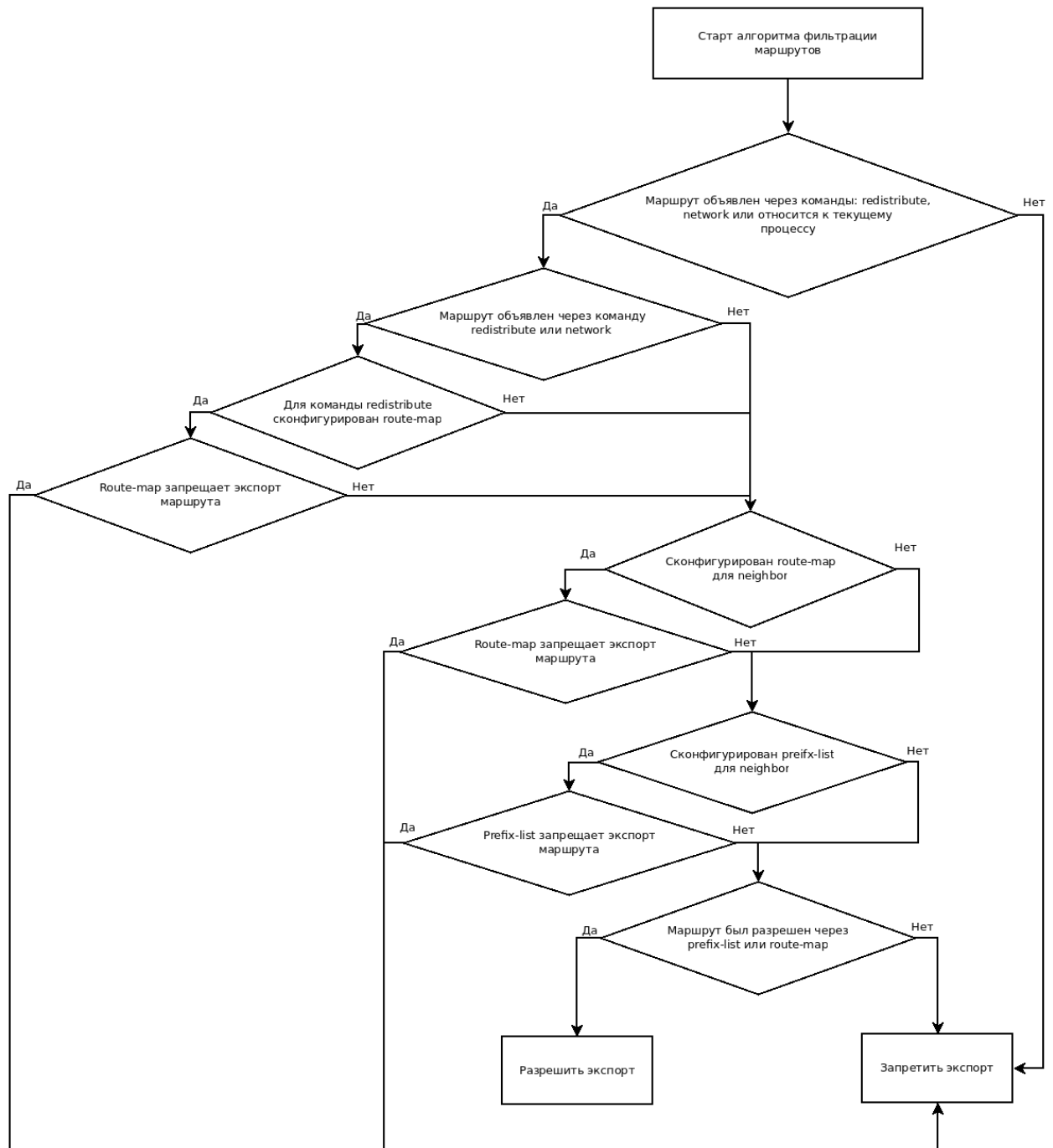
, : . route-map, route-map EGP, . , (rule) : action permit.
: *esr(config-bgp-neighbor)# route-map <RM_NAME> out*

Prefix-list (out)

, : . prefix-list, prefix-list EGP, .
: *esr(config-bgp-neighbor)# prefix-list <PL_NAME> out*

Route-map (out) + Prefix-list (out)

route-map prefix-list . , .



2 – EGP (BGP)

route-map prefix-list