

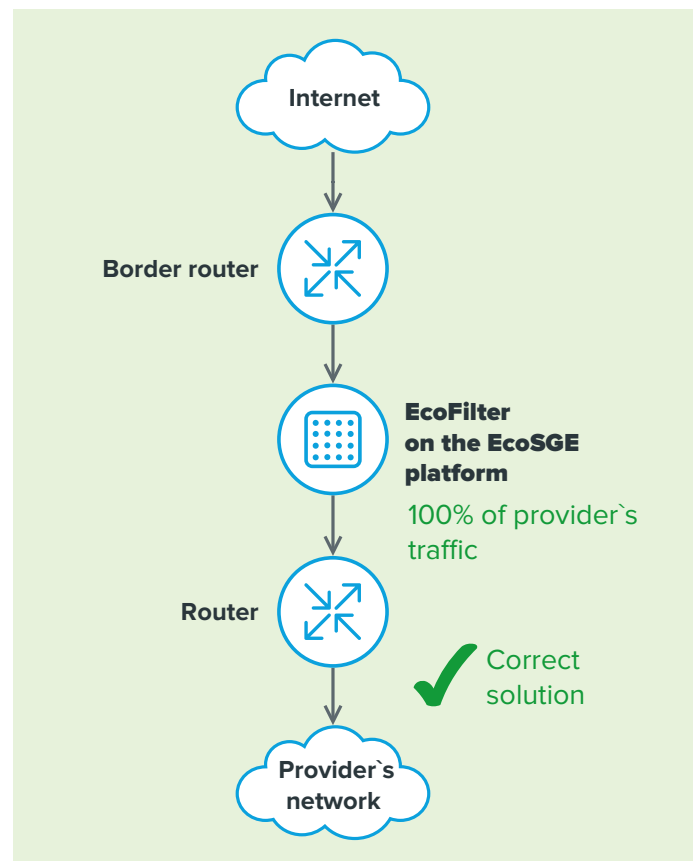
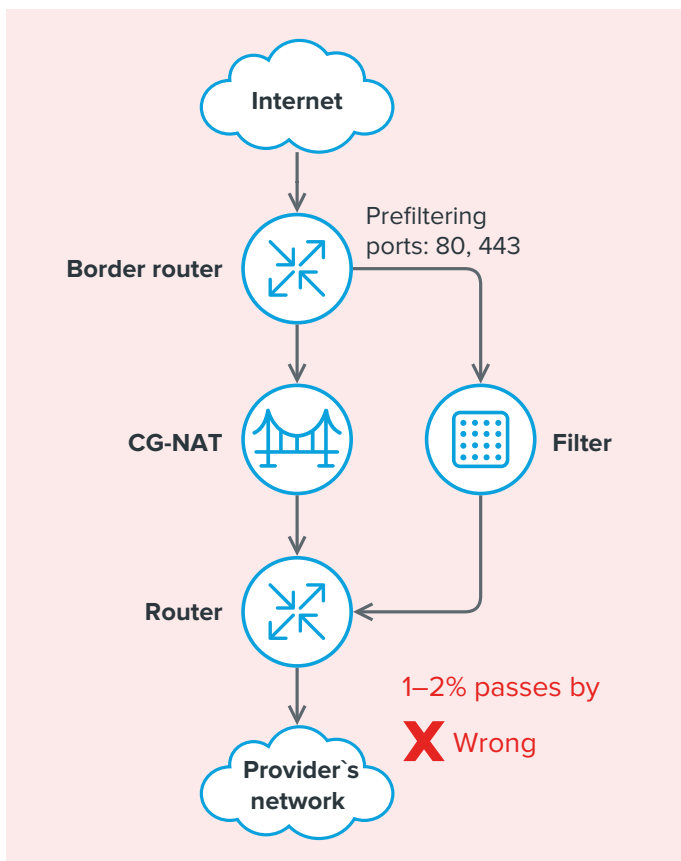
**EcoFilter** is an operator-grade product which assures URL filtering of entire provider's traffic on the wire speed and blocks 100% of prohibited resources according to the Roskomnadzor's register (RKN), Ministry of Justice, and to the provider's lists.

The EcoFilter functionality allows provider to fulfil the requirements of the law (federal law ##139, 149, 187, 436) in relation to unacceptable and prohibited internet resources and to offer additional services such a "Safe for children Internet" with a huge list filtering (up to 30 million URLs). The product is being constantly updated in accordance with the legal requirements.

The automatic updating and delta-packets downloading of RKN register data is implemented in EcoFilter.

The filtering URL lists can be assigned both to all subscribers and to the individual subscriber according to his tariff. The RADIUS feature or proprietary network protocol is used to identify subscriber. The EcoFilter device can be complement with the service gateway functionality (subscriber speed limitation, Captive Portal redirect, URL-based Open Garden, URL-based Policing, CG-NAT).

The EcoFilter is meant to be Russian product which is officially confirmed by decision of Interdepartmental Expert Council under the Ministry of Trade and the Ministry of Telecom and Mass Communications.



The most used URL filtering method in Russia for today is the following: only small part of traffic is channeled to the filtering system after preliminary router filtering (ACL, pulling of BGP routes, and so on).

Unlike most analogues, EcoFilter possess sufficient performance and allows to analyze the entire provider traffic on all TCP ports what assures 100% filtering results according to the Revizor system data. The URL filtering performance is up to 160 Gbps per 1U what is the best result in Russia and the good result even by world standards. This performance can easily be scaled individually by adding devices for specific customer needs.

In EcoFilter solution the mechanism of URL detecting in HTTP requests is provided. Even though subscriber uses means to bypass restrictions as access via non-standard server port, hiding URL by fragmentat-

ing GET request, non-standard header sequence and so on, the URL will be detected.

The EcoFilter device allows to log all subscriber GET requests in passing traffic and export them to the external server for further processing (Clickstream logging). This provides an opportunity to analyze and profile subscriber interests and risks both for specific subscriber and for entire provider's subscriber base. Also, this feature allows provider to cooperate mutually beneficial with the OTT services.

EcoFilter device analyzes traffic passing through it and allows to make an assessment of subscriber's Quality of Experience on multiple parameters (losses, delay, jitter, band, and so on) by making various averaged QoE metrics (subscribers, resources, and so on). Among others, this feature allows to bring to a qualitatively new level the work to prevent the outflow of subscribers from the provider.

<b>Universal platform EcoSGE</b>	<b>2020 / 2040</b>	<b>4080</b>	<b>4120 / 4160</b>
<b>Throughput</b>	24 / 34 Gbps	60 Gbps	120 / 160 Gbps
<b>Connection Setups Per Second</b>	2.3 M	2.5 M	5 M
<b>Concurrent Sessions</b>	32 million	40 million	150 million
<b>Network Interface</b>			
<b>10 GE Fiber (SFP+)</b>	2 / 4	8	12 / 16
<b>1 GE Copper</b>	6	-	-
<b>Logging Interface</b>	1 x 10/100/1000BaseT	1 x 10/100/1000BaseT	1 x 10/100/1000BaseT
<b>Management Interface</b>	1 x 10/100/1000BaseT	1 x 10/100/1000BaseT	1 x 10/100/1000BaseT
<b>Console Port</b>	RJ45 (RS232C)	RJ45 (RS232C)	RJ45 (RS232C)
<b>System Storage</b>	CF Industrial SLC	CF Industrial SLC	CF Industrial SLC
<b>Power Consumption Typical/Max</b>	140W / 170W	250W / 285W	340W / 400W
<b>Power Supply</b>	Dual 200W RPS 100-240 VAC (-36-72 DC)	Dual 500W RPS 100-240 VAC (-40-72 DC)	Dual 500W RPS 100-240 VAC (-40-72 DC)
<b>Cooling Fan</b>	Standard Fans	Hot Swap Smart Fans	Hot Swap Smart Fans
<b>Dimensions</b>	430mm x 400mm x 44mm	440mm x 570mm x 44mm	440mm x 570mm x 44mm
<b>Rack Unit (Mountable)</b>	1U	1U	1U



World network solutions vendor

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