UserGate Next Generation Firewall:
All-in one security for large and medium-sized businesses
UserGate development offices are located in the two most modern innovation centers in Moscow (Skolkovo) and Novosibirsk (Academtown), Russia. There are thousands of talented developers, engineers, scientists engaged in high tech production.
UserGate has been selected as a Reader Trust Award finalist in the Best Web Content Management Solution category for the SC Awards 2014. UserGate has been recognized as a Trust Award finalist in the Best UTM Solution category for the 2020 SC Awards.
UserGate is offered either as a virtual image for VMware, Hyper-V, VirtualBox, OpenStack, KVM, Xen and other virtual platforms or as a combination of hardware and software.

UserGate Models C, D, E, and F are tailored for various user segments, from desktop version for small businesses to the high-performance server-based solution for companies with dozens of thousands of users.
<table>
<thead>
<tr>
<th>Appliance</th>
<th>UserGate C</th>
<th>UserGate D</th>
<th>UserGate E</th>
<th>UserGate F</th>
<th>UserGate X</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW, Gbps</td>
<td>1</td>
<td>18-20</td>
<td>25-30</td>
<td>40</td>
<td>0.3</td>
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<tr>
<td>IPS (COB), Mbps</td>
<td>100</td>
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<td>1200-1500</td>
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<tr>
<td>ATP, Mbps</td>
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<td>300-350</td>
<td>400-600</td>
<td>2800</td>
<td>15</td>
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<td>Application Control (Layer 7), Mbps</td>
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<td>700-800</td>
<td>1000-1400</td>
<td>3200</td>
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<tr>
<td>Heuristic Antivirus (AV), Mbps</td>
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<td>240-260</td>
<td>300-500</td>
<td>1000</td>
<td>8</td>
</tr>
<tr>
<td>Recommended number of users</td>
<td>100</td>
<td>300-500</td>
<td>1000-3000</td>
<td>10000</td>
<td>-</td>
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</tbody>
</table>
UserGate Operating System

UserGate is based on a specially created and supported operating system, as well as specially engineered hardware devices that provide maximum efficiency and speed for handling traffic.

Our developers have devoted a great deal of attention to creating our own proprietary platform rather than using open source code and third-party modules. This has allowed us to provide a high-quality product that can be quickly developed and adapted for even the most complex projects.
Zero-Hour Threats Protection

The UserGate platform uses behavioral analysis technology, reputation assessment of all kinds of resources as well as access to signature databases of known malicious programs and sandboxes. Protection from DoS attacks UserGate platform can provide DoS protection, in part by limiting the maximum number of connections per individual user. Ad blocking UserGate analyzes downloaded content based on information about known ad networks and the scripts they use.

Traffic parsing and analysis UserGate performs morphological analysis on webpage content to search for specific words and phrases (Web 2.0).
NGFW - Next Generation Firewall

UserGate provides a firewall for medium-sized and large enterprises that supports high-speed traffic handling, multilevel security, granular user policy control, and transparent Internet use. The solution’s security features are based on constant interaction with our security center, which allows the response time to a wide range of modern threats to be as quick as possible.
Reverse Proxy

UserGate ensures corporate network security by blocking unauthorized access from outside. In certain situations, however, it is important to provide outside access to corporate resources, as well as to services running inside the corporate network.

UserGate can be used to safely publish the corporate portal resources and various internal systems, including CRM and ERP, and provide access to specific files on internal servers.
The **Intrusion Prevention System (IPS)** allows you to both respond to attacks by hackers who take advantage of known vulnerabilities and detect malicious activity within the network.

Security problems are identified by using heuristic rules and analyzing the signatures of known attacks. The IPS system monitors and blocks similar attacks in real time. Preventive protection measures include blocking certain segments of network traffic, dropping the connection, and notifying the network administrator.
Threat Intelligence

UserGate technology uses the modern SOAR framework (Security Automation, Orchestration and Response) to analyze the behavior of various processes, identify risks, and, based on its analysis, automatically protect against any threat or abnormal behavior at the earliest possible stage.

The administrator can assign scenarios and responses to events, which shortens the time between threat detection and response, as well as prioritize events to ensure a timely response to critical attacks.
Internet Filtering

Safeguard your company against advanced persistent threats and dangerous websites using real-time code analysis and reputation services.

UserGate includes the following features:
- Analysis of all incoming traffic (files, scripts etc.)
- Deep Content Inspection
- Reputation services
- Adware blocking

The product also features a built-in antivirus module that scans all web and FTP traffic, email attachments, and downloads.
High Availability and Clustering

UserGate supports clustering and high availability. Clustering makes it possible to apply unified settings, policies, libraries, certificates, authorization servers, and user groups to different nodes.
Application Control (Layer 7)

The application control feature (Layer 7) based on the updated signature database, can be used in firewall and bandwidth rules. This provides protection against threats from applications with Internet access.

This feature lets administrators both limit the use of applications for personal use, like messengers and torrent clients, and protect the local network from online threats.
SSL Decryption

Alongside ordinary unencrypted traffic, UserGate can be configured to filter HTTPS traffic. The server performs certificate-swapping and content filtering on the fly. UserGate uses all of its filtering mechanisms to process HTTPS traffic.
Mail Security

When checking your email, it is important to not only filter out spam, but also protect against messages infected with viruses, phishing and pharming attempts, and other types of fraud.

UserGate makes it possible to filter out emails by analyzing their contents and using heuristic techniques. The number of false reports is close to zero. The spam detection center can identify spam attacks anywhere in the world.
Virtual Private Network (VPN)

UserGate allows you to use a VPN for both connecting to devices remotely and creating secure tunnels between servers. This approach unites offices in different locations with a single logical network, which greatly simplifies unified security settings in a branch network. This ensures that employees can access corporate resources safely in companies with distributed structures.
Antivirus Protection

UserGate Antivirus, included in the optional Advanced Threat Protection module, makes it possible to provide a high level of user protection without reducing network throughput. This module sends the signatures of uploaded files and scripts to the cloud.

UserGate supports a database containing hundreds of thousands of dangerous files and script signatures that is updated hourly from a number of non-proprietary systems and sandboxes. This approach is extremely effective at high load because it blocks malicious files, addressing zero-hour problems without affecting system performance. Additional Heuristic Antivirus module provides more complex traffic check.
Guest Internet Hotspot

UserGate lets you provide Wi-Fi guest Internet access. For guest access, we support a variety of authentication methods, including one-time passwords and SMS.

Features for guest users include special policies and rules, Internet usage monitoring, and statistics.
User Authentication

UserGate supports user authentication, user-based firewall rules, content filtering, and application monitoring with support for authentication modes and protocols such as Active Directory, Kerberos, RADIUS, LDAP, Captive Portal, TACACS+, and MFA.

Administrators can apply specific security policies to any user, user group, or, as an example, all unknown users.
BYOD (Bring Your Own Device) Support

It is possible to apply special access rules to any device that users may have, including notebooks, tablets, and smartphones.

UserGate allows you to place restrictions on the maximum number of devices that an individual user may use (either in total or simultaneously), as well as assign a list of specific devices that a user may access the network with.
How it works
UserGate

GW IP: R1
Proxy: IP UG
Port: 809D

CLIENT

INTERNET

R1
Working with SPAN

UserGate

PDF

STATISTICS

SPAN PORT

CLIENT

R1

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<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Action</th>
<th>Users</th>
<th>Category</th>
<th>Morphology</th>
<th>URLs</th>
<th>Source Zone</th>
<th>Source Port</th>
<th>Dest Zone</th>
<th>Dest Port</th>
<th>Content Zone</th>
<th>Time</th>
<th>Users Zone</th>
<th>HTTP Port</th>
<th>Referer</th>
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<td>2</td>
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<td>8</td>
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**UserGate**

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UserGate can efficiently replace various existing well-known solutions: