# FortiGate® Rugged Series

## Mission Critical Security Solutions for Harsh Environments

While traditional security solutions are designed and intended for the world of offices and corporations, the FortiGate Rugged Series offers industrially-hardened, all-in-one security appliance that delivers specialized threat protection for securing critical industrial and control networks against malicious attacks.

### Rugged Design

Fanless and use of robust components ensure reliable operation in harsh industrial environments.

### Consolidated Security Architecture

FortiGate running FortiOS consolidated security offers better protection and lower cost of ownership than multiple point products. Coupled with FortiGuard Industrial Security Service, it ensures that critical networks receive real-time protection.

### SD-WAN Capable

Supports reliable connectivity with lower costs via SD-WAN technologies.

### Ease of Management

Robust management systems that allow rapid provision and deployment, monitoring of device and threat status while providing actionable reports.

## PRODUCT OFFERINGS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FGR-30D</td>
<td>Ruggedized compact security appliance with DIN mounting kit</td>
</tr>
<tr>
<td>FGR-35D</td>
<td>Security appliance with IP67 rating for outdoor environment</td>
</tr>
<tr>
<td>FGR-60D</td>
<td>SPU SoC-powered, high performance security and VPN gateway</td>
</tr>
<tr>
<td>FGR-60F</td>
<td>New SPU SoC4-powered for rugged and harsh environments</td>
</tr>
<tr>
<td>FGR-60F-3G4G</td>
<td>Integrated 3G4G modem for ruggedized and mission-critical applications</td>
</tr>
<tr>
<td>FGR-90D</td>
<td>Robust ruggedized security appliance with a wide operating temperature</td>
</tr>
</tbody>
</table>
**HARDWARE**

**FortiGate Rugged 30D**

Interfaces

1. 1x USB Port
2. 4x GE RJ45 Ports
3. 2x GE SFP Slots
4. 2x DB9 Serial Port/Console

**FortiGate Rugged 35D**

Interfaces

1. 3x GE RJ45 Ports

**FortiGate Rugged 90D**

Interfaces

1. 2x DB9 Serial Interface/Console
2. 2x GE SFP Slots
3. 1x GE RJ45 Bypass Pair
4. 3x GE RJ45 Ports
5. 2x USB interfaces

**FortiGate Rugged 60D**

Interfaces

1. 1x Micro USB Management Port for FortiExplorer
2. 1x Console Port (RJ45)
3. 2x GE RJ45 Ports
4. 2x Shared Media (GE RJ45 Ports / GE SFP Slots) Pairs
5. 1x DB9 Serial Interface

**FortiGate Rugged 60F/-3G4G**

Interfaces

1. 4x GE RJ45 Ports
2. 1x Bypass GE RJ45 Port Pair (WAN1 & Port4, default setting)*
3. 2x GE RJ45/SFP Shared Media Pairs
4. Integrated 3G4G Modem

*NOTE: WAN1/WAN2 and SFP1/SFP2 are shared interfaces
FORTINET SECURITY FABRIC

Security Fabric
The industry’s highest-performing cybersecurity platform, powered by FortiOS, with a rich ecosystem designed to span the extended digital attack surface, delivering fully automated, self-healing network security.

- **Broad**: Coordinated detection and enforcement across the entire digital attack surface and lifecycle with converged networking and security across edges, clouds, endpoints and users
- **Integrated**: Integrated and unified security, operation, and performance across different technologies, location, deployment options, and the richest Ecosystem
- **Automated**: Context aware, self-healing network & security posture leveraging cloud-scale and advanced AI to automatically deliver near-real-time, user-to-application coordinated protection across the Fabric

The Fabric empowers organizations of any size to secure and simplify their hybrid infrastructure on the journey to digital innovation.

FortiOS™ Operating System
FortiOS, Fortinet’s leading operating system enable the convergence of high performing networking and security across the Fortinet Security Fabric delivering consistent and context-aware security posture across network endpoint, and clouds. The organically built best of breed capabilities and unified approach allows organizations to run their businesses without compromising performance or protection, supports seamless scalability, and simplifies innovation consumption.

The release of FortiOS 7 dramatically expands the Fortinet Security Fabric’s ability to deliver consistent security across hybrid deployment models consisting on appliances, software and As-a-Service with SASE, ZTNA and other emerging cybersecurity solutions.

SERVICES

FortiGuard™ Security Services
FortiGuard Labs offers real-time intelligence on the threat landscape, delivering comprehensive security updates across the full range of Fortinet’s solutions. Comprised of security threat researchers, engineers, and forensic specialists, the team collaborates with the world’s leading threat monitoring organizations and other network and security vendors, as well as law enforcement agencies.

FortiCare™ Services
Fortinet is dedicated to helping our customers succeed, and every year FortiCare services help thousands of organizations get the most from their Fortinet Security Fabric solution. We have more than 1,000 experts to help accelerate technology implementation, provide reliable assistance through advanced support, and offer proactive care to maximize security and performance of Fortinet deployments.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Interfaces and Modules</th>
<th>FGR-30D</th>
<th>FGR-35D</th>
<th>FGR-60D</th>
<th>FGR-60F / 3G4G</th>
<th>FGR-90D</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE RJ45 Interfaces</td>
<td>4</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Bypass GE RJ4S Port Pair*</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>1*</td>
<td>–</td>
</tr>
<tr>
<td>GE SFP Slots</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>GE RJ4S/SFP Shared Media Pairs</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>2</td>
<td>–</td>
</tr>
<tr>
<td>DB9 Serial Interface</td>
<td>2</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>USB (Client / Server)</td>
<td>2</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>RJ4S Console Port</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Cellular Modem</td>
<td>–</td>
<td>3G4G / LTE</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transceivers Included</td>
<td>–</td>
<td>–</td>
<td>–</td>
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</tr>
</tbody>
</table>

### System Performance and Capacity

<table>
<thead>
<tr>
<th>IPv4 Firewall Throughput (1518** / 512 / 64 byte UDP packets)</th>
<th>900 Mbps**</th>
<th>550 Mbps**</th>
<th>1.5 Gbps**</th>
<th>6/6/5.95 Gbps</th>
<th>2 Gbps**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firewall Latency (64 byte, UDP)</td>
<td>70.00 μs</td>
<td>90.00 μs</td>
<td>4.00 μs</td>
<td>3.10 μs</td>
<td>51.00 μs</td>
</tr>
<tr>
<td>Firewall Throughput (Packets Per Second)</td>
<td>87 Kpps</td>
<td>52.5 Kpps</td>
<td>2.2 Mpps</td>
<td>8.9 Mpps</td>
<td>84 Kpps</td>
</tr>
<tr>
<td>Concurrent Sessions (TCP)</td>
<td>750,000</td>
<td>750,000</td>
<td>500,000</td>
<td>600,000</td>
<td>2.5 Million</td>
</tr>
<tr>
<td>New Sessions/Second (TCP)</td>
<td>6,000</td>
<td>5,000</td>
<td>4,000</td>
<td>18,000</td>
<td>20,000</td>
</tr>
<tr>
<td>Firewall Policies</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
</tr>
<tr>
<td>IPSec VPN Throughput (512 byte)*</td>
<td>45 Mbps</td>
<td>45 Mbps</td>
<td>1 Gbps</td>
<td>3.5 Gbps</td>
<td>84 Mbps</td>
</tr>
<tr>
<td>Gateway-to-Gateway IPSec VPN Tunnels</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Concurrent SSL-VPN Users (Recommended Maximum)</td>
<td>80</td>
<td>80</td>
<td>100</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>SSL Inspection Throughput (IPS, avg. HTTPS)</td>
<td>50 Mbps</td>
<td>55 Mbps</td>
<td>15 Mbps</td>
<td>460 Mbps</td>
<td>85 Mbps</td>
</tr>
<tr>
<td>SSL Inspection CPS (IPS, avg. HTTPS)</td>
<td>75</td>
<td>75</td>
<td>50</td>
<td>100</td>
<td>70</td>
</tr>
<tr>
<td>SSL Inspection Concurrent Session (IPS, avg. HTTPS)</td>
<td>45,000</td>
<td>45,000</td>
<td>15,000</td>
<td>70,000</td>
<td>72,000</td>
</tr>
<tr>
<td>Application Control Throughput (HTTP 64K)</td>
<td>210 Mbps</td>
<td>230 Mbps</td>
<td>95 Mbps</td>
<td>1.3 Gbps</td>
<td>440 Mbps</td>
</tr>
<tr>
<td>Virtual Domains (Default / Maximum)</td>
<td>3 / 3</td>
<td>10 / 10</td>
<td>10 / 10</td>
<td>10 / 10</td>
<td>10 / 10</td>
</tr>
<tr>
<td>Maximum Number of FortiAPs (Total / Tunnel)</td>
<td>2 / 2</td>
<td>2 / 2</td>
<td>10 / 5</td>
<td>30 / 10</td>
<td>32 / 16</td>
</tr>
<tr>
<td>Maximum Number of FortiTokens</td>
<td>20</td>
<td>20</td>
<td>100</td>
<td>500</td>
<td>100</td>
</tr>
<tr>
<td>Maximum Number of FortiSwitches</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>16</td>
<td>8</td>
</tr>
</tbody>
</table>

### High Availability Configurations

| Active-Active, Active-Passive, Clustering |

### System Performance — Enterprise Traffic Mix

<table>
<thead>
<tr>
<th>IPS Throughput</th>
<th>160 Mbps</th>
<th>210 Mbps</th>
<th>95 Mbps</th>
<th>950 Mbps</th>
<th>350 Mbps</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGFW Throughput</td>
<td>45 Mbps</td>
<td>65 Mbps</td>
<td>40 Mbps</td>
<td>550 Mbps</td>
<td>370 Mbps</td>
</tr>
<tr>
<td>Threat Protection Throughput</td>
<td>16 Mbps</td>
<td>16 Mbps</td>
<td>23 Mbps</td>
<td>500 Mbps</td>
<td>280 Mbps</td>
</tr>
</tbody>
</table>

*Default bypass pair configuration is WAN1 and Port4
**Measured using 1518 byte UDP packets

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Note: All performance values are “up to” and vary depending on system configuration.
1. IPSec VPN performance test uses AES256-SHA256.
2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
3. SSL inspection performance values use an average of HTTPS sessions of different cipher suites.
4. NGFW performance is measured with Firewall, IPS and Application Control enabled.
5. Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.
## SPECIFICATIONS

### Dimensions and Power

<table>
<thead>
<tr>
<th></th>
<th>FGR-30D</th>
<th>FGR-35D</th>
<th>FGR-60D</th>
<th>FGR-60F / -3G4G</th>
<th>FGR-90D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height x Width x Length (inches)</strong></td>
<td>5.49 x 4.13 x 2.36</td>
<td>3.07 x 10.04 x 10.04</td>
<td>1.73 x 8.50 x 6.10</td>
<td>1.68 x 8.50 x 6.50</td>
<td>2.11 x 7.32 x 6.30</td>
</tr>
<tr>
<td><strong>Height x Width x Length (mm)</strong></td>
<td>139.5 x 105 x 60</td>
<td>78 x 255.09 x 255.09</td>
<td>44 x 216 x 155</td>
<td>42.7 x 216 x 165</td>
<td>53.5 x 186 x 160</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>1.46 lbs (0.668 kg)</td>
<td>3.986 lbs (1.808 kg)</td>
<td>3.5 lbs (1.6 kg)</td>
<td>3.85 lbs (1.75 kg)</td>
<td>2.4 lbs (1.08 kg)</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Desktop/DIN/Wall Mount</td>
<td>Outdoor mountable</td>
<td>Desktop/DIN/Wall Mount</td>
<td>Desktop/DIN/Wall Mount</td>
<td>Desktop/DIN/Wall Mount</td>
</tr>
<tr>
<td><strong>IP Rating</strong></td>
<td>IP20</td>
<td>IP67</td>
<td>IP20</td>
<td>IP20</td>
<td>IP40</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>Dual input, total 6 pin terminal block (12–48V DC), DC cables are not included. 6</td>
<td>Terminal block (12–48V DC) DC cables are not included. 7</td>
<td>-48V DC power supply and external 12V DC power adapter connection. AC adapter not included. DC Power connector supplied only. 8</td>
<td>supports negative (+12V to +125V DC) and positive ground (-12V to -125V DC) sources, cables are not included. 7 See the QuickStart Guide for details.</td>
<td>total 6 pin terminal block (12–48V DC) AC adapter included. 9</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>15.55 W / 15.92W</td>
<td>10.2 W / 10.6 W</td>
<td>11.6 W / 14 W</td>
<td>15 W / 21 W / 17 W / 24W</td>
<td>40 W / 49 W</td>
</tr>
<tr>
<td><strong>Maximum Current</strong></td>
<td>1.19A</td>
<td>0.83A</td>
<td>-48V DC / 0.5A</td>
<td>12V DC / 2A</td>
<td>12–48V DC / 4.08–1.02A</td>
</tr>
<tr>
<td><strong>Heat Dissipation</strong></td>
<td>54.29 BTU/h</td>
<td>35.81 BTU/h</td>
<td>40 BTU/h</td>
<td>72 BTU/h</td>
<td>82 BTU/h</td>
</tr>
</tbody>
</table>

### Operating Environment and Certifications

| **Operating Temperature** | -40–185°F (-40–70°C) | -40–140°F (-40–60°C) | -4–140°F (-20–60°C) | -40–167°F (-40–75°C) | -40–158°F (-40–70°C) |
| **Storage Temperature**   | -50–185°F (-50–85°C) | -50–185°F (-50–85°C) | -40–185°F (-40–85°C) | -40–185°F (-40–85°C) | -40–185°F (-40–85°C) |
| **Humidity**              | 5–95% non-condensing | 5–95% non-condensing | 20–90% non-condensing | 5–95% non-condensing | 0–95% non-condensing |
| **Operating Altitude**    | Up to 7,400 ft (2,250 m) | Up to 7,400 ft (2,250 m) | Up to 7,400 ft (2,250 m) | Up to 7,400 ft (2,250 m) | Up to 7,400 ft (2,250 m) |

### Industry Certifications

<table>
<thead>
<tr>
<th><strong>Regional Compatibility</strong></th>
<th>FGR-60F / 3G4G</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Tx Power</strong></td>
<td>20 dBm</td>
</tr>
</tbody>
</table>

### Modem Model

- Sierra Wireless EM7565 (2 SIM Slots, Active/Passive)
- B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B18, B19, B20, B26, B28, B39, B40, B41, B42, B43, B46, B48, B66

### Module Certifications

FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB

### Diversity

Yes

### MIMO

Yes

### GNSS Bias

Yes

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6. AC adapter not supported.  
7. AC adapter not supported. Requires fabricated DC cables (refer to QuickStart Guide).  
8. Requires third-party AC adapter or DC cables. If wide temperature range is not required, SP-FG60C-PDC (0–40°C) may be acquired separately.  
9. Additional AC adapter for dual redundant input is currently not available for order.  
10. Excludes supplied power adapter which operates at smaller temperature range.
SUPPORTED PROTOCOLS

IPS and Application Control Support for Operational Technology / Industrial Control System

- ADDP
- BACnet
- CC-Link
- CIP
- CN/IP (EIA/CEA-852)
- CoAP
- DICOM
- DNP3
- ECHONET Lite
- ELCOM 90
- Ether-S-Bus
- EtherCAT Automation Protocol (EAP)
- Ethernet Global Data (EGD)
- EtherNet/IP
- FL-net
- HART-IP
- HL7
- IEC 60870-5-104
- IEC 60870-6 (TASE 2/ICCP)
- IEC 61850 MMS
- IEC 61850 R-GOOSE
- IEC 61850 R-SV
- IEC 62056 (DLMS/COSEM)
- IEEE 1278.2 Distributed Interactive Simulation
- IEEE C37.118 Synchronphasors
- KNXnet/IP (EIBnet/IP)
- LonTalk/EIA-709.1
- Modbus TCP
- MOXA
- MQTT
- MTConnect
- Niagara Fox
- OPC Classic (DA, HDA, AE)
- OPC UDA
- OpenADR
- PROFINET
- RTPS
- SafetyNet
- Siemens S7, S7Plus, LOGO
- STANAG 4406
- STANAG 5066
- TriStation
- Vedeer-Root
# ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Product</th>
<th>SKU</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FortiGate Rugged 30D</td>
<td>FGR-30D</td>
<td>Ruggedized, 4x GE RJ45 ports, 2x SFP slots, 2x DB9 Serial. Maximum managed FortiAPs (Total / Tunnel) 2 / 2.</td>
</tr>
<tr>
<td>FortiGate Rugged 35D</td>
<td>FGR-35D</td>
<td>Ruggedized, IP67 rating for outdoor environment, 3x GE RJ45 Switch ports. Maximum managed FortiAPs (Total / Tunnel) 2 / 2.</td>
</tr>
<tr>
<td>FortiGate Rugged 60D</td>
<td>FGR-60D</td>
<td>Ruggedized, 4x GE RJ45 Switch ports, 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots). 1x RJ45 by-pass can be set up between WAN1 and PORT4. DB9 Serial.</td>
</tr>
<tr>
<td>FortiGate Rugged 60F</td>
<td>FGR-60F</td>
<td>Ruggedized, 4x GE RJ45 Switch ports, 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots). 1x RJ45 by-pass can be set up between WAN1 and PORT4. DB9 Serial.</td>
</tr>
<tr>
<td>FortiGate Rugged 60F-3G4G</td>
<td>FGR-60F-3G4G</td>
<td>Ruggedized, 4x GE RJ45 Switch ports, 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots). 1x RJ45 by-pass can be set up between WAN1 and PORT4. DB9 Serial. Embedded 3G/4G/LTE wireless wan module.</td>
</tr>
<tr>
<td>FortiGate Rugged 90D</td>
<td>FGR-90D</td>
<td>Ruggedized, 5x GE RJ45 ports, 1x GE RJ45 bypass pair, 2x SFP slots, 2x DB9 Serial/console. Dual power input. Maximum managed FortiAPs (Total / Tunnel) 32 / 16.</td>
</tr>
</tbody>
</table>

## BUNDLES

FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

### 360 Protection
- FortiCare
- FortiGuard App Control Service
- FortiGuard IPS Service
- FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service
- FortiGuard Web and Video Filtering Service
- FortiGuard Antispam Service
- FortiGuard Security Rating Service
- FortiGuard IoT Detection Service
- FortiGuard Industrial Service
- FortiConverter Service
- SD-WAN Cloud Assisted Monitoring
- SD-WAN Overlay Controller VPN Service
- FortiAnalyzer Cloud
- FortiManager Cloud

### Enterprise Protection
- 24/7
- 24/7
- 24/7

### Unified Threat Protection
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### Advanced Threat Protection
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<td>FortiGate Rugged 30D</td>
<td>FGR-30D</td>
<td>Ruggedized, 4x GE RJ45 ports, 2x SFP slots, 2x DB9 Serial. Maximum managed FortiAPs (Total / Tunnel) 2 / 2.</td>
</tr>
<tr>
<td>FortiGate Rugged 35D</td>
<td>FGR-35D</td>
<td>Ruggedized, IP67 rating for outdoor environment, 3x GE RJ45 Switch ports. Maximum managed FortiAPs (Total / Tunnel) 2 / 2.</td>
</tr>
<tr>
<td>FortiGate Rugged 60D</td>
<td>FGR-60D</td>
<td>Ruggedized, 4x GE RJ45 Switch ports, 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots). 1x RJ45 by-pass can be set up between WAN1 and PORT4. DB9 Serial.</td>
</tr>
<tr>
<td>FortiGate Rugged 60F</td>
<td>FGR-60F</td>
<td>Ruggedized, 4x GE RJ45 Switch ports, 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots). 1x RJ45 by-pass can be set up between WAN1 and PORT4. DB9 Serial.</td>
</tr>
<tr>
<td>FortiGate Rugged 60F-3G4G</td>
<td>FGR-60F-3G4G</td>
<td>Ruggedized, 4x GE RJ45 Switch ports, 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots). 1x RJ45 by-pass can be set up between WAN1 and PORT4. DB9 Serial. Embedded 3G/4G/LTE wireless wan module.</td>
</tr>
<tr>
<td>FortiGate Rugged 90D</td>
<td>FGR-90D</td>
<td>Ruggedized, 5x GE RJ45 ports, 1x GE RJ45 bypass pair, 2x SFP slots, 2x DB9 Serial/console. Dual power input. Maximum managed FortiAPs (Total / Tunnel) 32 / 16.</td>
</tr>
</tbody>
</table>

## Optional Accessories

1. **1 GE SFP LX transceivers, SMF, -40–85°C operation**
   - SKU: FR-TRAN-LX
   - Description: 1 GE SFP LX transceiver module, -40–85°C, over SMF, for all systems with SFP and SFP/SFP+ slots.

2. **1 GE SFP transceivers, 90km range, -40–85°C operation**
   - SKU: FR-TRAN-9X
   - Description: 1 GE SFP transceiver module, -40–85°C, over MMF, for all systems with SFP and SFP/SFP+ slots.

## Contact Information

Visit www.fortinet.com for more information.

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