



За счет чего достигается высокая производительность межсетевых экранов Fortinet



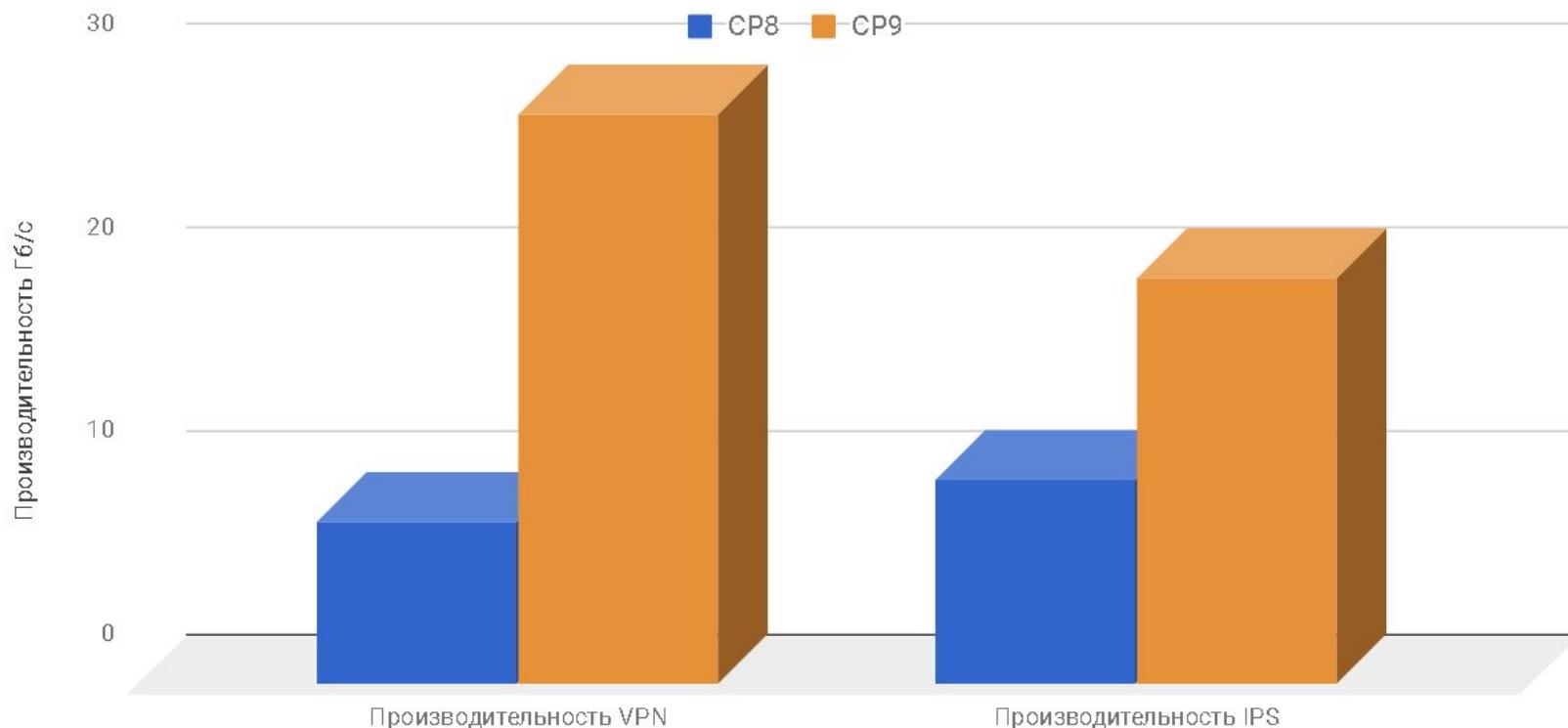
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# Аппаратные процессоры Fortinet

- Content Processor (CP8, CP9)
- Network Processor (NP6, NP6lite)
- Security Processor (SP)



- ❑ Flow-based inspection (IPS, application control etc.) pattern matching acceleration
- ❑ High performance VPN bulk data engine
  - ❑ IPsec and SSL/TLS protocol processor
  - ❑ DES/3DES/AES
  - ❑ MD5/SHA-1/SHA256
  - ❑ HMAC
- ❑ Key Exchange Processor that supports high performance IKE and RSA computation
  - ❑ Public key exponentiation engine with hardware CRT support
  - ❑ Primary checking for RSA key generation
  - ❑ Handshake accelerator with automatic key material generation
  - ❑ Sub public key engine (PKCE) to support up to 4096 bit operation directly



**VPN NSA "SuiteB" support**

CP8

CP9



**IPS Full-match Offload**

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**True Random Number  
Generator**

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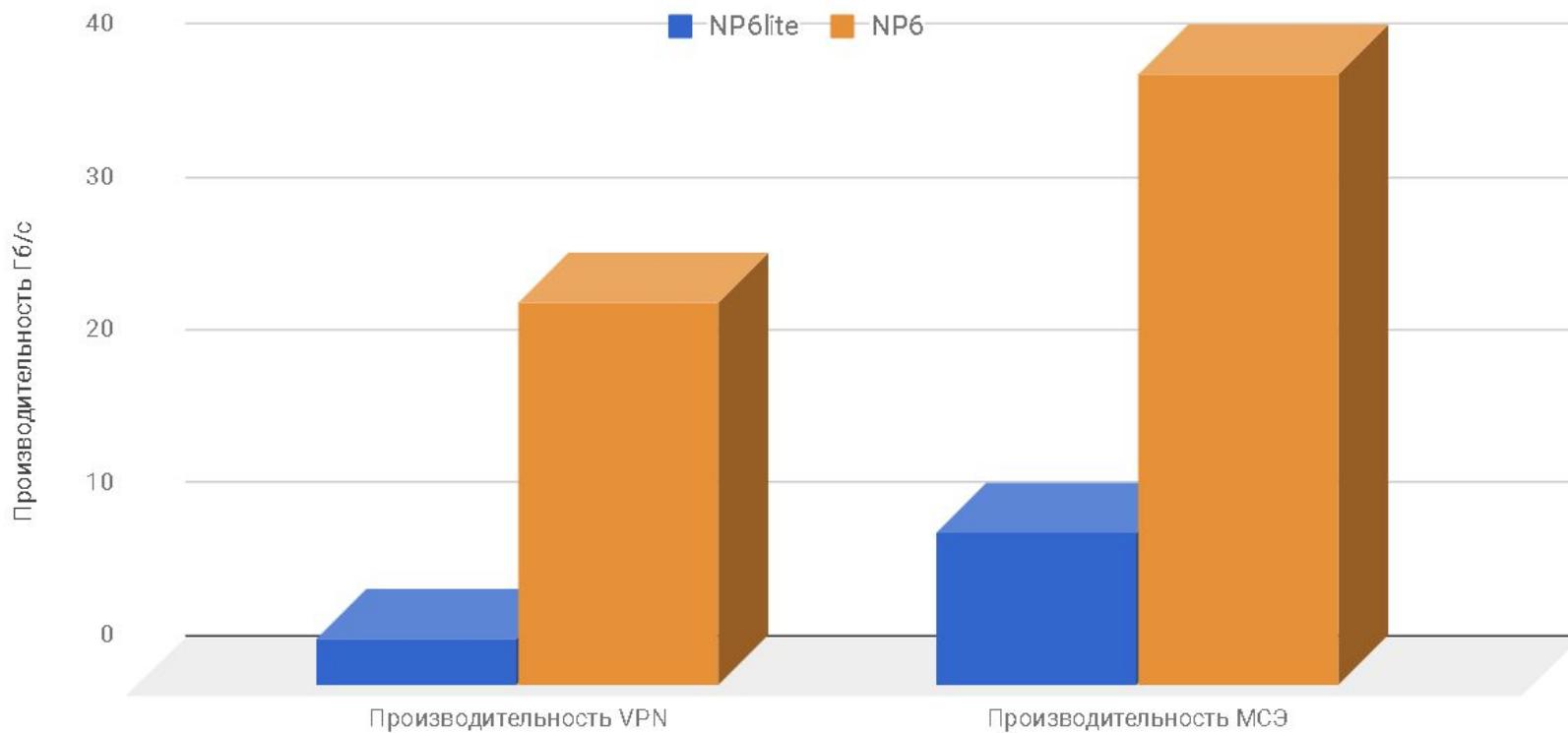


**DLP fingerprint**

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- IPv4 and IPv6 traffic offloading
- IPsec VPN encryption/decryption
- Multicast traffic offloading
- Link aggregation (LAG) offloading
- Anomaly-based intrusion prevention
- Traffic shaping and priority queuing
- Inter-VDOM link traffic

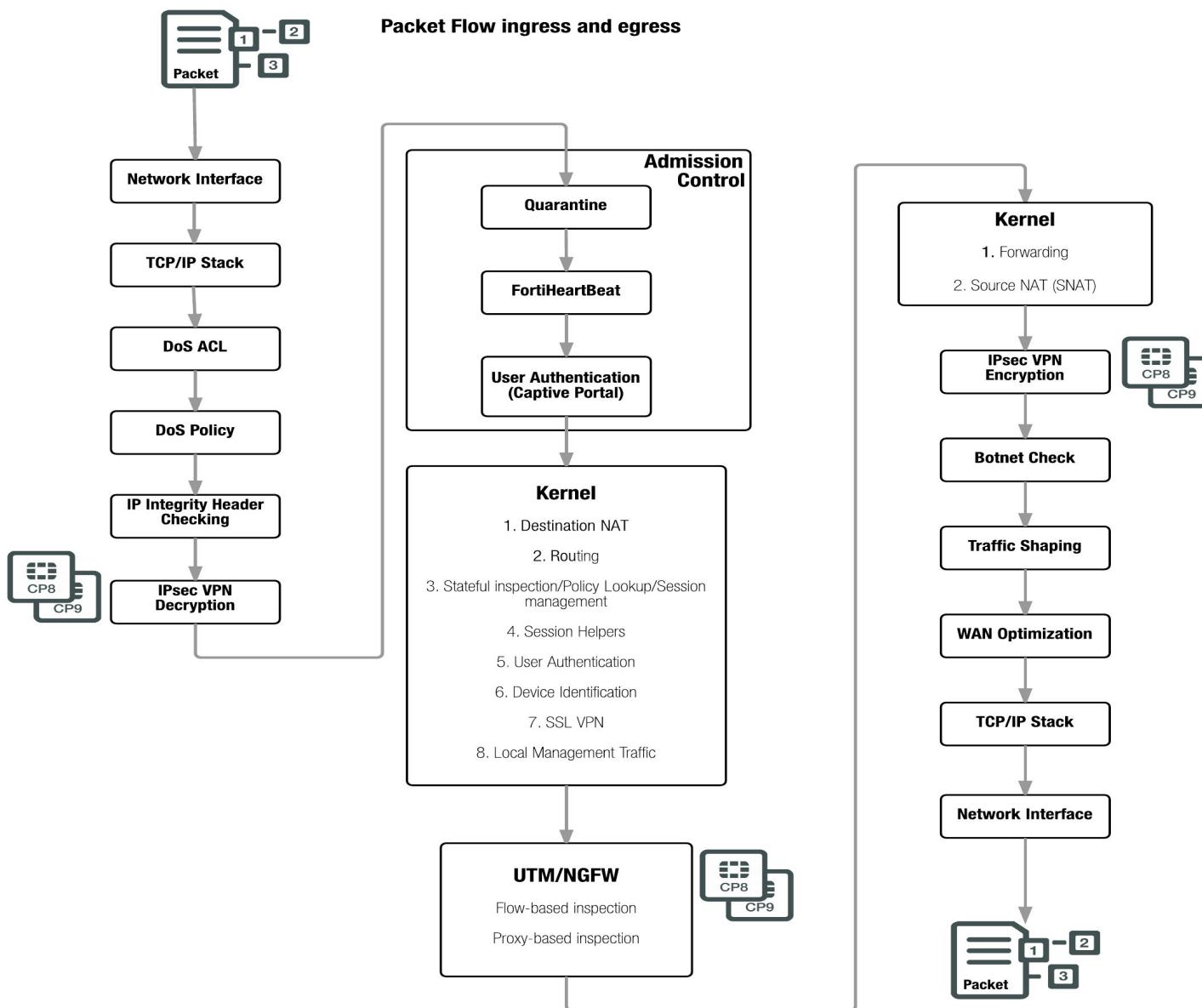


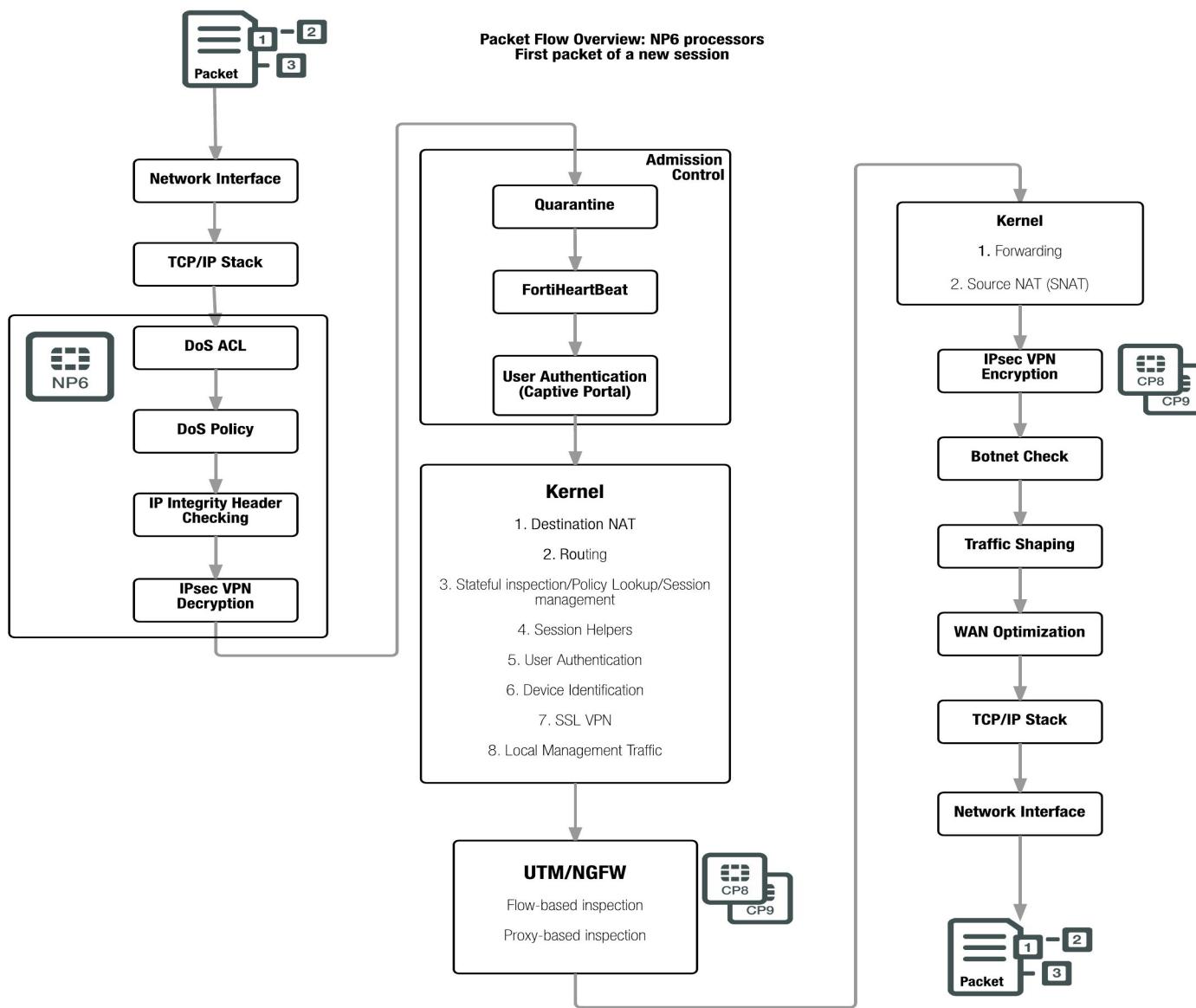
	NP6lite	NP6
<b>CAPWAP</b>	-	✓
<b>Syn proxying</b>	-	✓
<b>DNS session helper</b>	-	✓

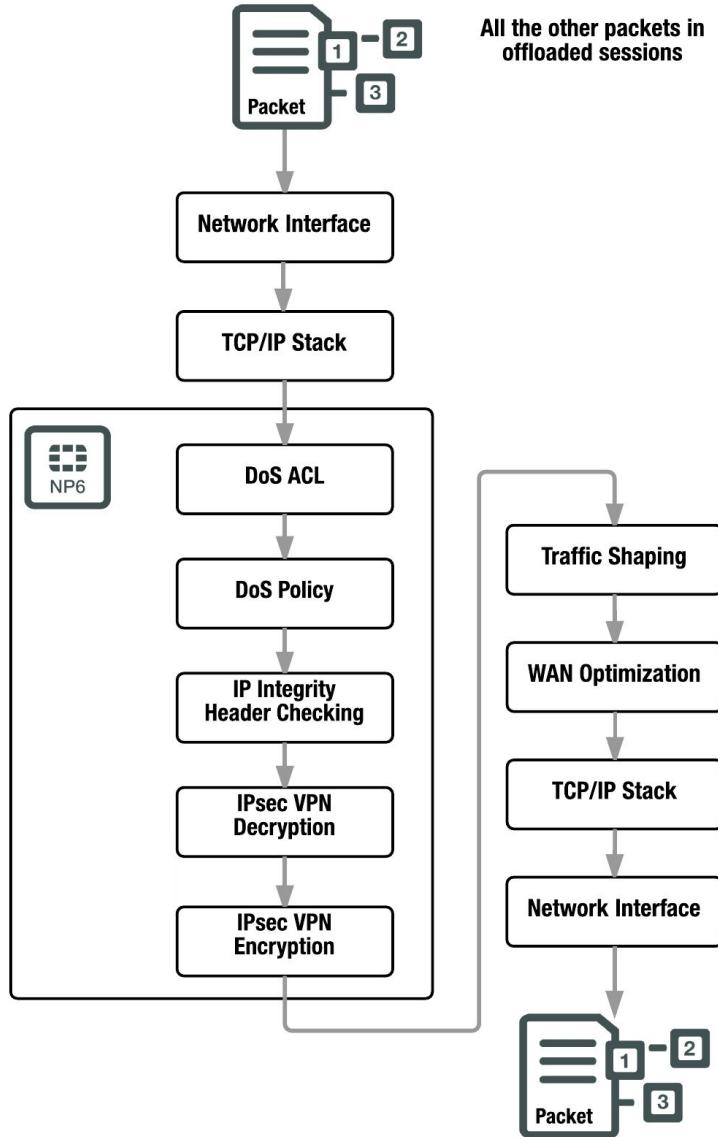


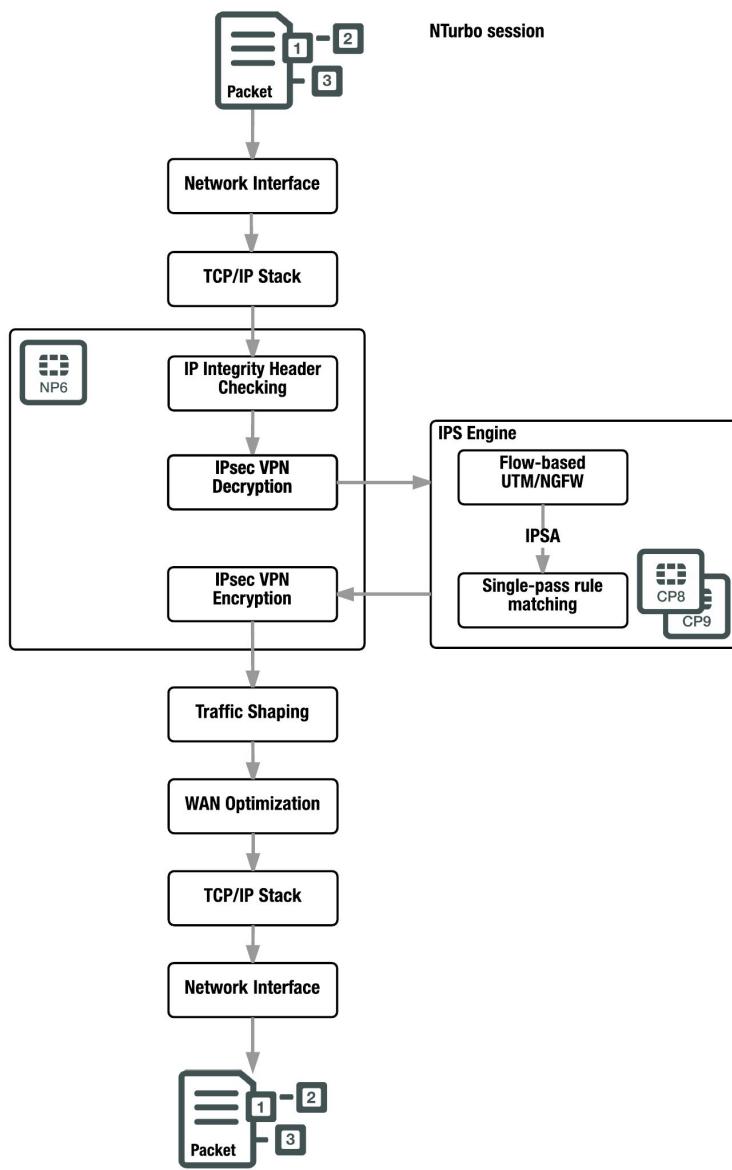
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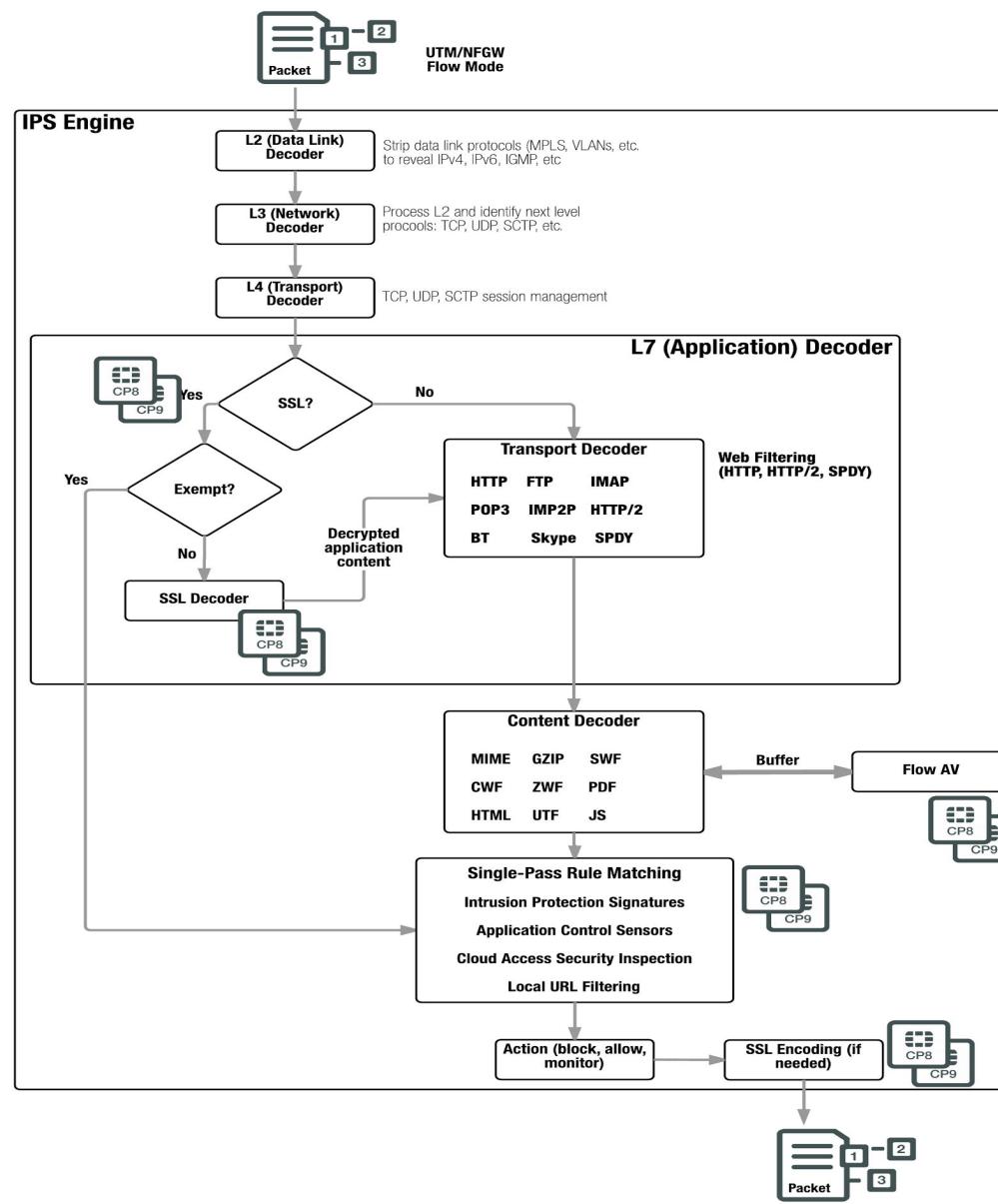
# Обработка пакетов в межсетевых экранах FortiGate

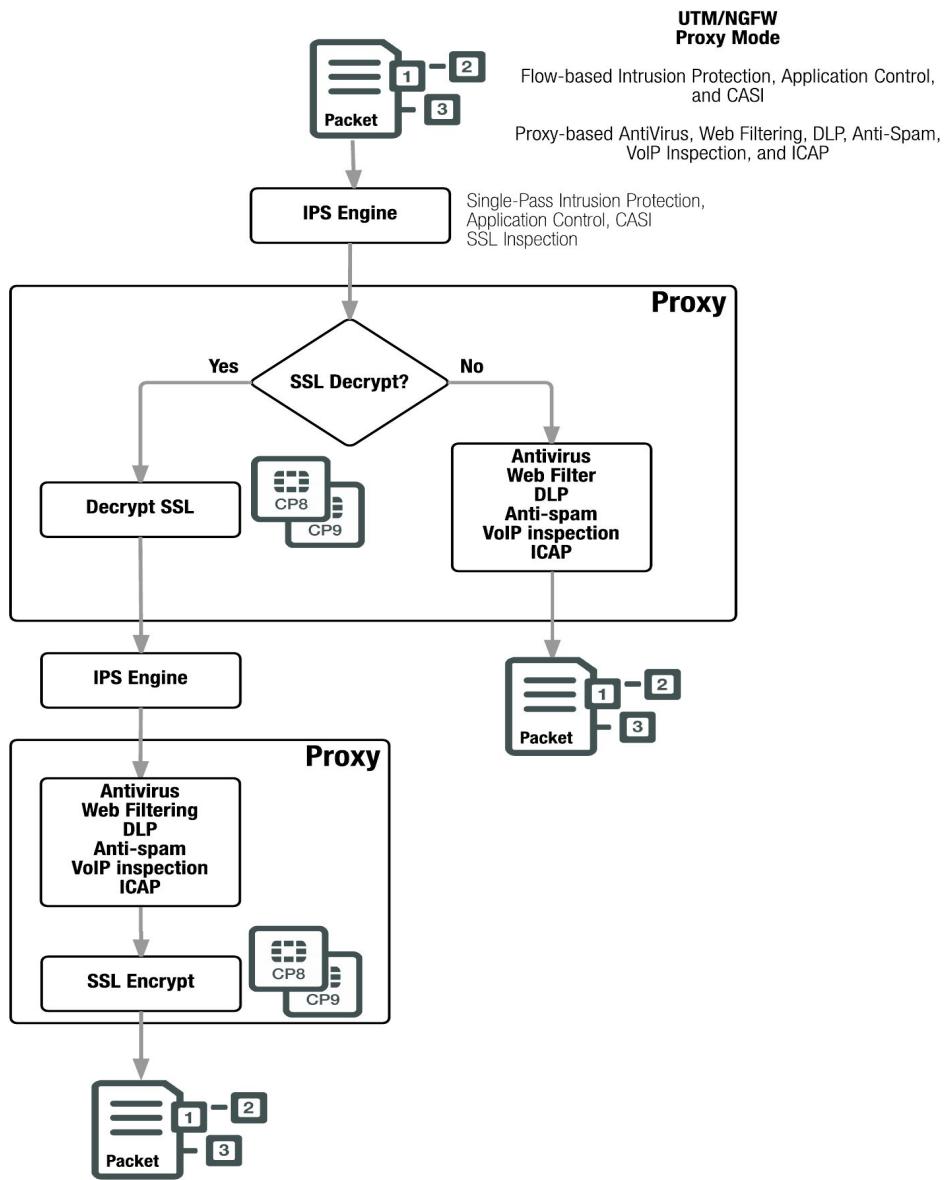














Спасибо за внимание