

WebRTC -

WebRTC - , . :

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 - :
 - (VP8, H.264) (Opus).
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 -
- : TLS SRTP.
- , , .
- :- WebRTC , , WebRTC.

– , IP , . WebRTC ICE , , (STUN, TURN). WebRTC , . , . , - ICE. callback' WebRTC Ice candidate . ? IP , , , TURN .

STUN – , , , , **STUN** , **NAT** , **STUN** , – , . **STUN** , IP , , **WebRTC** (). **NAT** , , .

:

Gliffy Macro Error

An error occurred while rendering this diagram. Please contact your administrator.

- Name: glif

NAT. , , , - Webitel. (NAT), 192.168.20.1. , (192.168.20.20) (18899), NAT, (192.168.20.20 1.2.3.4) (7834). , Webitel. Webitel , . 1.2.3.4 7834, (). , NAT 192.168.20.20 18899. .

, **NAT**.

Internal IP	Internal PORT	External IP	External PORT

, **NAT**:

Internal IP	Internal PORT	External IP	External PORT
192.168.20.20	18899	1.2.3.4	7834

NAT (-), , **NAT**.

. . (, ,) , , .

: 50%.

	(SD)	(HQ)	(ED)	(HD)	HD (60 fps) FullHD
	Microsoft Windows 10, macOS 10.12+, Linux				
	Intel Celeron G3xxx (2,7); Intel Celeron 3xxxU (1,5); AMD Ryzen 3 2U (2,5)	Intel Celeron G3xxx (2,7); Intel Celeron 3xxxU (1,7); AMD Ryzen 3 2U (2,5)	AMD Athlon 64 X2 (2,4); Intel Celeron G3xxx (2,7); Intel Pentium 4xxxY (1,5); AMD Ryzen 3 2U (2,5)	Intel Core i5-4xxM (2,4); Intel Core i5-2xxx (2,3); Intel Pentium 4xxxU (2,1); AMD Ryzen 3 2U (2,5)	Intel Core i7-2xxx (3,0); Intel Pentium G4xxx (2,9); Intel Core i5-7xxxU (2,6); AMD Ryzen 3 1 (3,1)

	1	2		4	
	256 /	512 /	1 /	2 /	4 /

WebRTC . , 3G, 4G, EDGE, () . , (). , , .. .

Google Chrome Mozilla Firefox.

WebRTC HTTP Proxy, NAT TCP 443, UDP 1024-65535 .

Datagram Transport Layer Security (DTLS), .

WebRTC:

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- -
 -
 - **WebRTC** – (sdp)
 - – (offer) (answer)
 - (offer) (answer)
- - (Ice candidate) –
 - , TURN
 -
 - IP , (TCP UDP)
 -
 -
- STUN/TURN/ICE/NAT
 - NAT –
 - NAT
 - – , , , , ,
 - NAT
 - ICE – NAT
 - STUN TURN – - NAT
 - STUN NAT,