Spec status

W3C		IETF		
WebRTC 1.0	CR	JSEP	\rightarrow RFC	
Media Capture and Streams	CR	Data Channel	~RFC	
Identifiers for WebRTC's Statistics	WD	RTP Usage	~RFC	
		Transports	~RFC	
		Audio/Video codecs	RFC	
		Requirements	RFC	

JavaScript APIs - 2 generations

https://blog.mozilla.org/webrtc/the-evolution-of-webrtc/ (June 2017)

The three main stages in the design were:

- addStream and removeStream (Chrome today)
- addTrack, removeTrack, and sender.replaceTrack (Firefox today)
- addTransceiver and early media (No-one today)

2nd gen. JavaScript WebRTC APIs - Chrome

Challenging for application developers without consistent compliance, native path chosen instead

Available:

- getStats,
- Track constraints,
- Receiver

• Experimental:

- Sender,
- addTrack,
- ontrack

• Under development:

Unified Plan

ETA: mostly completed end of Q1 2018

2nd gen. JavaScript WebRTC APIs - Firefox

Available:

- Spec-compliant getStats,
- MediaStreamTrack constraints,
- RTCRtpReceiver,
- RTCRtpSender,
- addTrack,
- ontrack,
- Unified Plan

ETA: (transceiver) mostly completed next week

2nd gen. JavaScript WebRTC APIs - Safari

Available:

- Spec-compliant getStats,
- MediaStreamTrack constraints,
- o RTCRtpReceiver,
- o RTCRtpSender,
- addTrack.
- o ontrack,

Under development:

Unified Plan

ETA: mostly completed when chrome gets it

2nd gen. JavaScript WebRTC APIs - Edge

IE: no, and will not happen

Edge:

ORTC: yes + webrtc shim

Webrtc: yes, but 1st generation only

UWP: Webrtc yes

Codec: H264UC (skype), H264, VP8, VP9 (SVC) ... depending on the version above.

ETA: not clear

Web Platform Tests Progress

May 2017: 293 tests

Nov 2017: 1296 tests (+1003)



https://wpt.fyi/webrtc

Coverage Status

From 10% to 70% in less than a year, proudly made in Singapore by a SPR ;-)

\$ cd webrtc	/tools				
<pre>\$ node scripts/overview.js</pre>					
Overall Cove	erage				
=========	=======				
todo	248				
tested	315				
trivial	173				
untestable	79				
=========	=======				
total	815				
coverage	69.57%				
=========	=======				

4. Peer-to-peer connections	67.83%
5. RTP Media API	67.01%
6. Peer-to-peer Data API	71.87%
7. Peer-to-peer DTMF	93.54%
8. Statistics Model	100.00%
9. Identity	86.04%
10. Media Stream API Extensions for Network Use	35.71%

Most compliant Browser (june 2017)

	Passed	Failed	Timeouts	Errors	Not Run	
	393	396	3	1	0	
Display:	€	€	·	2	2	

chromium

	Passed	Failed	Timeouts	Errors	Not Run	
	397	388	7	0	2	
Display:						

firefox

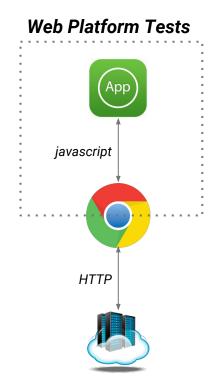
	Passed	Failed	Timeouts	Errors	Not Run
	438	321	30	1	10
Display:	•	O	2	2	•

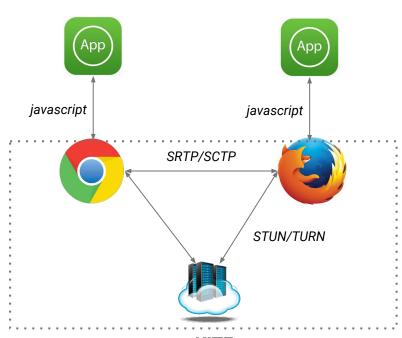
Safari Tech preview 33, when it went out, was the most compliant browser, by a very small margin.

They did not have to pay any technical debt as chrome and firefox have.

In 2018, those results will be computed every day for all browsers here in Singapore, and made available to the entire community.

Tests tracks: WPT and Interop testing





KITE

Proudly made in Singapore as a Master Graduation project.

We would love your feedback on this tutorial!

https://www.surveymonkey.com/r/100webrtc