

Error handling status

13 Nov 2012

Anant's original

- <http://lists.w3.org/Archives/Public/public-webrtc/2012Oct/0030.html>
- Guidelines from Firefox
 - 2 ways to signal errors:
 - Exceptions: anything detectable in a synchronous manner (<50 ms)
 - Failure callbacks: everything else

Current text

- Section 4.6.1, “An exception must be thrown in the following cases:
 - The type of any argument passed to a function did not match what was expected. An appropriate string from the `RTCExceptionName` enum must be used as the error name.
 - A function call was made when the `RTCPeerConnection` is in an invalid state, or a state in which that particular function is not allowed to be executed. In this case, the string `INVALID_STATE` must be used as the error name.
- In all other cases, an error object must be provided to the failure callback.”

Methods w/out callbacks (synchronous)

- RTCPeerConnection
 - updateIce q
 - addIceCandidate q
 - createDataChannel q
 - addStream
 - removeStream
 - setIdentityProvider
 - getIdentityAssertion
 - close
 - createDTMFSender q
- RTCDataChannel
 - close
 - send
- RTCStatsReport
 - getValue
- RTCDTMFSender
 - insertDTMF
 - canInsertDTMF

Recent discussions

- Adam's proposal
 - <http://lists.w3.org/Archives/Public/public-webrtc/2012Dec/0022.html>
- Jim's gUM proposals
 - <http://lists.w3.org/Archives/Public/public-media-capture/2012Dec/0062.html>
 - <http://lists.w3.org/Archives/Public/public-media-capture/2012Dec/0110.html>

Adam's proposal

- Remove explicit list of syntax errors in section 4.6.4.

Jim's gUM proposals

- Align Media Capture & Streams spec with WebRTC using section 4.6 text
- Attempts to list gUM errors
 - Questions about whether device errors, constraint satisfaction errors, permission errors are the same or different

➡ Need similar review again for WebRTC