

Constraints/settings general

Dan Burnett
W3C TPAC 2012
Lyon

Questions to answer

- Do we support run-time changes to VideoStreamTracks?
 - What kinds of changes?
 - What impact would there be for PeerConnection streams?

Travis' settings proposal v4

- http://dvcs.w3.org/hg/dap/raw-file/tip/media-stream-capture/proposals/SettingsAPI_proposal_v4.html
- Tracks from gUM are device-centric
 - Replaces LocalMediaStream with regular MediaStream
 - Composed of instances of device-specific tracks: video, picture, audio
 - Tracks have intrinsic properties such as width and height, camera direction for video; microphone sensitivity for audio

Travis' settings proposal v4

- Device discovery and swapping
 - MediaDeviceList contains live list of available devices
 - ... for one device type
 - ... only after one device of the type has been approved
 - No gUM call needed to switch to using different device from list (of same type)
 - Provides handlers for device appearance and disappearance
 - Ability to "trial" constraints against MediaDeviceList
 - Using new constraints dictionaries separate from media constraints registry

Travis' settings proposal v4

- Settings are specific-valued constraints
 - applied to tracks at any time
 - Overrides any constraints from original gUM call

Impacts on Peer Connections

- Device vs. stream orientation
 - Device info preserved over Peer Connections?
 - Settings propagation (or not) across Peer Connections
 - Browser automatic changes within constraints in the presence of settings
- Device track swapping within a stream

Questions to answer

- Do we support run-time changes to VideoStreamTracks?
 - What kinds of changes?
 - What impact would there be for PeerConnection streams?